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**FIGURE 5267**

CTCTTGCGGAGACGCGCGCTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA  
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT  
AAAGCACAGCTCGACGTTGCCGCGCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG  
CGCACTGCTGGAGGCCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC  
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC  
ACTTACCAGCTGCACCATTTCTCTGGGATATACATCCAACCTCATCAGTTTCAAGCATCCGTGAGACCATTGCTA  
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT  
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA  
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCAATCTGGACCAGATGGTGATGGA  
GCAGAACACAGAGGGGTGTAAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA  
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA  
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCGCTGGTCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC  
ACAGGCCATCTTTGCCAAGTGCACTGGGATGATCATTCTGGGCGGGGCGTGGTCAAGCACACATTGCCAATGC  
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCAGGAGTTTGATGGCTCTGACTCAGG  
TGCCCCACCAGACGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC  
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCCTTCATGCATGAGAAGAACGA  
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCC  
TACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA

A

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**FIGURE 5268**

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFRAVQQVNAMEKKLE  
PLSQDEEDQHADLTQSRRLTSCITIFLGYTSNLISSGIRETIRYLVQHNMVDVLVTTAGGVEEDLIKCLAPTYLGE  
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTSPKMIARLGKEINNPESVYYWAQ  
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA  
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQKMDAFMHEKNED



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**FIGURE 5269**

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCGTAAGCCCGGCCCTAGGGGCAGCTTTGA  
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGTGCT  
AAAGCACAGCTCGACGTTGCCGCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG  
CGCACTGCTGGAGGCCCTTCGGCACCCGGCTTCCAAGCAACCACTTCGGGCGCGCTGTACAGCAAGTCAATGC  
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC  
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTCGCTA  
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT  
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA  
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCGACCAGATGGTGATGGA  
GCAGAACACAGAGGGGTAAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA  
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA  
CATGATCTTCTTCCATTCTACAAGAACCCGGGCCTGGTCTGGACATCGTTGAGGCCCAGGAGTTTGATGGCTC  
TGACTCAGGTGCCCCGACCAGACGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA  
TGCTGACGCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA  
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG  
CCCCTCCCTACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 5270**

CTCTTGCGGAGACGCGCGCGTCGGGGTTTAAACGCGTTTCTGGGCCCGCGTAAGCCCGGCCTAGGGGCAGCTTTGA  
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGTGCT  
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG  
CGCACTGCTGGAGGCCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC  
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC  
ACTTACCAGCTGCACCATTTTCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA  
CCTTGTCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT  
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA  
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA  
GCAGAACACAGAGGGTGTAAGTGAGCGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA  
GTCCGTGTATTACTGGGCCGAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA  
CATGATCTTCTTCATTCTTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGGTGCCCGACCAGACGAGGC  
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT  
GCTTGTGGCTGAAACCTTTGCCGAGAAGATGGATGCCTTCATGCATGAGAAGAAGAGGACTGAGCGGCTGCGGT  
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTTGGTCAGCTAC  
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5271**

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE  
PLSQDEDQHADLTQSRRLTSCITIFLGYSNLISGIRETIRYLVQHNMDVLVTTAGGVEEDLIKCLAPTYLGE  
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTSPKMIARLGKEINNPESVYYWAQ  
KNHIPVFPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA  
QKMDAFMHEKNED

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**FIGURE 5272**

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG  
AAGCCTGACAGGGCTTTTGGCACAGCTGCCGGCTGGCTGCTACCCGCCCCGCCAGCCCCGAGAACGCGCGAC  
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCGGAGCGGGCCCCGCAGGGA  
CCCTCCCCAGACCGCTGGGCGGCCCGGATGTGCACTAAAATGGAACAGCCCTTCTACCACGACGACTCATACAC  
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT  
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGGCCAGAGGGCGGCGGTGGCGG  
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT  
TGTCCTCAACAGCAACGGCGTGATCAGCAGCAGCCTACACCCCGGGACAGTACTTTTACCCCCGCGGGGTGG  
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCACCGAGGAGCAGGAGGGCTTCGCGGACGGCTTTGTCAA  
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCC  
GGCTGGGCCCCGGGGCGTCTACGCGGCCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC  
CTCTGCGTCTTCGGGAGGCGCCGGGGCTGCCGTGGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT  
CCCACACGCGCCGCCCTTCGCCGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA  
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCGCGCGGTGTCCCCATCAACATGGAAGACCA  
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA  
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT  
CCTCCGGGAGCAGGTGGCCCAGCTCAAACAGAAGGTCATGACCCACGTAGCAACGGCTGTCAGCTGCTGCTTGG  
GGTCAAGGGACACGCCCTTCTGAACGTCCCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC  
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCCTGGGACCTAGGGGCGCCGAAACCACACTGGACT  
CCGGCCCCCTTACCCTGCGCCAGTCTTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTTGTATGT  
TTTTTTCTGCTGGAAACAGACTCGATTTCATATTGAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG  
GGGCGATCGCGGCGGAGCTGGCCCCGCGCCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC  
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAAAGAAACACGCACCTTAGTCTCTAAAGAGTTTATTTTAAGACG  
TGTTGTGTTTGTGTGTTTGTTCCTTTTATTGAATCTATTTAAGTAAAAAAAATTGGTTCTTTATTAA

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**FIGURE 5273**

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGS  
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN  
HVTPPNVSLGATGGPPAGPGGVYAGPEPPPVTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG  
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLRNRLAATKCRKRKLERIARLEDKV  
KTLKAENAGLSSTAGLLREQVQLKQKVMTHVSNQCQLLLGVKGHAF

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**FIGURE 5274**

CGCGGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCCA  
CGCAGCTTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG  
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCCTCTGG  
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTTCAGCAACCGTGCAGAGGACTTCCGCAAGCTGGGGCTGTG  
AAGTGTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAGAGGGAGGCT  
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGTGAAAACAG  
ATGAGGGCATTGCCTACAGGGGCCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTAAATGATT  
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG  
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA  
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC  
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCCCTCCAAACTCCACAGTATGGGACCCCTGG  
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCCAAGCCCACCCAGCC  
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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**FIGURE 5275**

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYPLDFTFVCPTEIIAFSNRAEDFRKLGCEVLGV  
SVDSQFTHLAWINTPRKEGGLGPLNIPLLDVTRRLSEYGVLTDEGIAYRGLFIIDGKGVLRQITVNDLPVGR  
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKYFSKHN

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**FIGURE 5276**

AAAAGGCTTCGCGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC  
CTTTGCCACGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCA  
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTCT  
ACCCCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGC  
TGGGCTGTGAAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGAAAG  
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC  
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCTCAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT  
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTGCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT  
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCTGATGTCTTCAGGGGCCTCTTT  
ATCATCGATGGCAAGGGTGCCTTCGCCAGATCACTGTTAATGATTTCCTGTGGGACGCTCCG .



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**FIGURE 5277**

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGGCGGCTGAGGCGGCATGGATCTCAGCGAG  
CTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCCCGGGTGTGCCGCAAGGAGCCTTGCGTC  
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT  
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGAAAGGCTGTTT  
GCGAAAATGGAGGACACGGACTTTGTGCGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG  
CTTGGGCGGGTCAAATACAACCTGAACTCCCTGTACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC  
CAGGGCGTGAACGTCAACCAGGTATTCTGTGGACACCGTAGGGATGCCAGAGACATACCAGGCGCAGCTGCAGCAA  
AGTTTTCCCGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTAGTGCTGCCAGCATC  
TGTGCCAAGGTGGCCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCTGTGGAGAACTGCAGGACTTGGATACTGAT  
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTCCGGCTTC  
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCAGACCATCTGGAGAAAGAGGCGGAAGATGTTATATGGGAG  
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCGT  
CCCCGTTCTTCCACCGATATTTCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC  
GCTCTACCTGCTTCCCCAACCAGACATTAAAATTGTTTAAGGAG

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**FIGURE 5278**

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPRLADLEALKVADSKTLLESE  
RERLFAKMEDTDFVGWALDVLSPNLISTSMGLGRVKYNLNSLSHDTATGLIQYALDQGVNVTQVFVDIVGMPETYQ  
AQLQQSFPGIEVTVKAKADALYPVVSAAISAKVARDQAVKKWQFVEKLQDLDDYGS GYPNDPKTKAWLKEHVE  
PVFGFPQFVRFSWRTAQTTILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLERGLESATSL

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**FIGURE 5279**

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAC TGCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG  
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG  
CTGGGCGAGGTTCATCGAGGCTGAAC TTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC  
CGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA  
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGTGGACAAGAGTGC GGCTGAC  
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA  
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGA CTCTGAAG  
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG  
ATCTCCAGTGGCTCTTGCGGGACCGGCCCTTCAAGCCCTACAAC TTCTTGCCCCACGGTGTCTCCCCGACAGC  
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGGACAGATCTTCTGGAGATGGGGTTCACCGAGATG  
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAAC TTGACGCCCTCTTCCAGCCCCAGCAGACCCAGCCCGT  
GACCAGCACGACACCTTCTTCCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC  
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA  
AACCTACTGCGAACCCACACCACATCAGCCAGCGCCCGTGCGCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT  
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC  
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTCTGCGGGAGTTCTTCACC  
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTT CAGC  
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG  
GGGCTTCCCGAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC  
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCCTGGAT  
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGACATGGGCCACTCTAGGACAGGTATCTTCCCCGAGT  
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCTCTGTGAGGCCAGCCCCACC  
TTCCTCTTTCCACCTGTCCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT  
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT  
GCCCCA

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**FIGURE 5280**

MADGQVAELLLRLEASDGGGLD SAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAE GEEIAREGS  
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVD SMEDEVQRRQLV RGGQAEK  
LGEKERSELKRKLLAEVTLKTYWVSKGS AFSTSISKQETELSPEMI SSGSWDRPFKPYNFLAHGVLPDSGHLH  
PLLKVR SQFRQIFLEMGFTEMP TDNFI ESSFWNF DALFQPQQHPARDQHD TFFLRDPAEALQLPMDYVQVRKTH  
SQGGYGSQGYKYNWKLDEARKNLLRTH TTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG  
VVADHGLTLGHLMGVLR EFFTKLGITQLRFKPAYNPYTEP SMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE  
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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**FIGURE 5281**

GTCCGTA CTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCTTGCCGCCCCCTCGGCCCGCCATGC  
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTCGCCGAGCCTGCCGTCTACTTTCAAGGAGCAGT  
TTCTGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA  
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC  
TGTCGGCCAGTTTCGAGCCTTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTCACGGTGAAACATGAGCAGA  
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTTCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG  
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCCACCAAGAAGGTTTCATGTCTCTTCAACTACAAGG  
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC  
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGGAAGACGATTGGGACT  
TCCTGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG  
ATCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCGAGCATATCCTGACCCTGATGCTAAGAAGCCCGAGG  
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCAAGTGAATCAGAACCCCTGAGTACAAGGGTGAGTGGAAGC  
CCCGGCAGATCGACAACCCAGATTACAAGGGCAGTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCG  
ATCCAGTATCTATGCCTATGATAACTTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT  
TTGACAACCTTCCTCATCACCACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG  
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA  
AAGAGGAGGAGGAGGAGGAGGACAAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG  
AGGAAGATGAGGAGGAAGATGTCCCGGCCAGGCCAAGGACGAGCTGTAGAGAGGCCTGCCTCCAGGGCTGGACT  
GAGGCCTGAGCGCTCCTGCCGCAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAACTTTCAATTTT  
TTCCAGGCTGGTTCGATTGTTGGGTGGATTTTGGTTTTGTTCCCTCCTCCACTCTCCCCACCCCTCCCCGCC  
CTTTTTTTTTTTTTTTTTTAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC  
TTGATCAACATCTTTTCTTGCTCTGTCCCTTCTCTCATCTCTTAGCTCCCTCCAACCTGGGGGGCAGTGGTG  
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCCTGGAGCCCAGAGGAGGGCAGCAGAAGGGGGTGGT  
GTCCTCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTCAACCCCTCCCTTTCTCCCTGCCCCCAGG  
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAATT  
TCTATTAAATTAAATTTTGTGTCTC

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**FIGURE 5282**

MLLSVPILLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSGKFYGDEEKDKGLQTSQDARFY  
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTDHMGDSEYNIMFGPDICGPGTKKVHVIFNY  
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI  
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPFVIQNPEYKGEWKPRQIDNPDIKGTWHPIDNPES  
PDPSIYAYDNFGVLGLDLWQVKSITFDNFLITNDEAYAEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEDKK  
RKEEEEAEDKEDDEDKDEDEDEEDKEDEEEDVPGQAKDEL

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**FIGURE 5283**

CCGGAAGTGGTCGGCGCGCGGGCGGGCGCGCCTGGGCGCTAAGATGGCGGGCGCGTGAGTTGCATGTTGTGTGAG  
GATCCCGGGGCGCGCGCTCGCTCGGGCCCCGCCATGGCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGAC  
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTTCGTGA  
TGCCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTA  
TCGCATCGATGAGAAGAACTTTGTGGTCGTATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC  
AGAGGCCTCACCCACAGCTGCCCCAGAGTCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCC  
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTGTCAGG  
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCTCCACGCTAGTGACGGGTCTGTAGTATGA  
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTTCGTGGCCGCCCTGAGAGCCAGCTACAA  
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCTTGGGAGCCCCGAGCCGGAACACGGTTCTGTCCA  
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCTGGAGTTCTGCGGGACCAGCC  
CCAGTTCCAGAACATGCGGCAGGTGATTTCAGCAGAACCCTGCGCTGCTGCCCCGCTGCTCCAGCAGCTGGGCCA  
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACAGGAGCAGTTTCATCCAGATGCTGAACGAGCCCCCTGG  
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCCGCAGATGAACTACAT  
CCAGGTGACCGCGCAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCCAGAGAGCCTGGTCATCCA  
GGCCTATTTGCGGTGTGAAAAAATGAGAACTTGGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG  
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCCTACCTTATTCCATGAAAGTTTATAAAAGAAAAAATATAT  
ATATATTCATGTTTATTTAAGAAATGGAAAAAATCAAAATCTTAAAAAACAAGCAAACAGTCCAGCTTCC  
TGTCTCCTAAAGTGGCCCCGTGTTCCCATCTCCCGGGCCAGACAGCTGTCCCCCGTCCTCCTCCCCAGCCCAGC  
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCCCTTGGCCTCTGTCCCAGCTCTCTGCAGCC  
AGACGGAAAGCGGGCTGCTTGCCCTCTCCATCCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTCTAGGAT  
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCAAATCTTTCCATCTAGGGCAAGTCCTGAA  
AGGCCCAAGCCCCCTCCCCAGTCTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG  
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTGAAGTGAATAAAGTTTTAAAACT

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**FIGURE 5284**

MAVTITLKTQQQTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM  
VTKTKAGQGTSAPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSGSVPSGSSGRE  
EDAASTLVTGSEYETMLTEIMSMGYERERVVAALRASYNPNHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE  
AAGENPLEFLRDQPQFQNMQRVQQNPALLPALLQQLGQENPQLLQQISRHQEQFIQMLNEPPGELADISDVEGE  
VGAIGEEAPQMNYIQVTPQEKEAIERLKGFPESLVIQAYFACEKNENLAANFLLSQNFDDE



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**FIGURE 5285**

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCTGGCCCCGGGTTCCTCGTGGCTAC  
CGGGCGCGGCGCGCCCCCGCGCCGCAGGCCGGGACCCCGGTGGCCAGACCCCGAGGACCTCCTGACCCCGCGGTGG  
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCTCCGGGGTGGTCCCCGGTTCGTTA  
TGGCCGTGCGCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACCGCAATGGTACCCGAGCCTGGCGACCATGCAG  
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG  
GCCAAGATGCCACAGATGATTGTGAAGTGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCCAGGCTGACAAG  
GAGAGGAGGGCCCGACTGCAGGCTGAGGCCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTCCCCGCTTC  
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG  
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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**FIGURE 5286**

CTAATTCGGGAAACGTGCACCTTGACTAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGCGGGCGGAGGCGC  
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCCGGGTGCTCTCTAGAGC  
CCGGTTTTTTCAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGGCCCTACGGAGA  
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAATCGCCTTTCCAGTGCCAACGA  
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTC  
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA  
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT  
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC  
CCTAGAGGTGCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA  
TGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACAGCACCA  
GAGGGTGTGCGAGAGGTTTGACGTGATGATCTGGACCCCTATGGCAGCCAGCCACCTTCTCGGATGCAGCTGT  
GCAGGCTGTGAGTGAAGGAGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA  
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCCTGCCACGAGATGGCCCTGAGAATCGTCCT  
GCACAGCCTGGACCTCCGCGCCAACCTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA  
CGTGCGTGTTTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGT  
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA  
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC  
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCCTGGAGGCTGTGAGCGCTAACCCCGGCCG  
CTTCCACACCTCGGAGCGGATCCGAGGGGTCTTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA  
CACCTTGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA  
CGCTGACTTCCGGGTCTCACTCTCCACGCCGTGAAGAAGCGTGTGAAGACGGATGCCCCTGCCCTCTGCCCTCTG  
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCCAGCGTTCCG  
CATTCTCAGTGTGGAGCCCAGGCTGCAGGCCAAGTTTACCATTCCGGGAAGATGCCAACCCAGCTCCCGACAGCG  
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAAGTGGGGTCCCCGGCCTCGTGCCCGGCCAGGGGGCAAGGC  
GGCCGACGAAGCTATGGAGGAGAGACGCGAGGTGCTTCAGAACAAAGCGGAAGGAGCCCGGGAAGATGTGGCCCA  
GCGGGCTGCCCGGCTCAAGACATTTCTTGCAAGAGGTTTAAAGAGGGCACCTGTCAACGCGGGGACCAGTGCTG  
CTACTCCACAGCCCCCGACACCCAGGGTTTCTGTGATGTGCCCCCTGACTGTCCAGAGACCTCCAACCAGAC  
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTTGAACCAATAAAGAGATGTCACGTACCTTCAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5287**

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPREVQETTVTEGAAKIAFPSANEVFYN  
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC  
EEGLHVLEGLAASGLRSIRFALEVPGLRVSVANDASTRAVDLIRRVQLNDVAHLVQPSQADARMLMYQHQRVSE  
RFDVIDLDPYGSPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD  
LRANCYQRFVVPLLSISADFYVRVFEVRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVPSGRAKFSAA  
CGPPVTPECEHCGQRHQLGGPMWAEP IHDLD FVGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ  
LSSTIHCNTPSLLQLRSALLHADFRVSLSHACKNAVKTDPASALWDIMRCWEKECPVKRERLSETSPAFRILSV  
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARPGGKADEAMEERRLLQNKREPPEDVAQRAAR  
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTFPGPAAAGPGID

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**FIGURE 5288**

ATGTCTCTCGAAGACCCCTTTTTGTTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCCGCGGGCTGTAC  
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGCGGTTCGGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG  
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAGCCAACCCA  
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTTCGTGGAGCGGATGCGAGAGGCAGTCCAG  
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC  
AAGCCAGCTGCCCAGAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG  
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG  
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA  
GAGATGGACCACACCCAGTCCCGCATGGACGGGGTCCTCAGGAAGTTGGCCAAAGTATCCACATGACGAGTGAC  
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTTGA

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**FIGURE 5289**

MSLEDFFFVVRGEVQKAVNTARGLYQRWCELLQESAAVGREELDWTINELRNGLSIEWDLEDLEETIGIVEANP  
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSPATAVAFLEARNREILAGKPAAQKSPDLLDASAVSATSRYIE  
EQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRKLAKVSHMTSD  
RRQWCAIAVLVGVLVLLVLLIFSL

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**FIGURE 5290**

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC  
CCCGCCGCTGTGCGCGTCGAGTCGCCATGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGA  
AGATGTATCACTCCCGCATGCAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTGCTGGTCATGCGCA  
GCGCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCGAGGTGTCGTTGCCGGCCGCCCTCCCT  
CTGACCCTGCGCTGCACCCGCCCCGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCGACGGTGAGCACCCGT  
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCCCTGCTGTGCCCGCGCCCCGCCA  
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAAGCCC  
GTCTGGAAGAAAAGGAAGAGAGGAGGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG  
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTGTCAGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCG  
CCCCCTCGACGGCGCCCGCGCTGCGAGGCAAAGCCCGCTTGCCGCCCGGGCGGACAGCATGCTCAACGTGCTCG  
TGCGGGCCGTGGTGGCCTTCTGAGGACCCCGAGCGGCGCTGCCGGAGCCAGAGCGCGCTCGAACCCTCGGCC  
GAGGGCGCAGACCTGAGGCGAGGCCACCCCTCCATCCTGGGGGAAGCGCCCGCGAAAACCGTGGAGAGAAGCC  
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGCAGGGACGG  
CACCGAGGAGTCTGAGCCGGGGCGCGGGCGCCTTCGCGAGAGACCTGCGCCACAGGTGCTGTCTTAGTGGACT  
GGGACGTGAACCTTTGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTGTGTTTGT  
TTGTTTGTGTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTTCAAGGTTT  
TTCAAGAGTTGGTTTTGCGTTTCCAACCTCGGAGAATTCCAGGCACTCCCTTCCCCCTCCGCTGACATACTTGT  
ATAAGCGGTCATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCTGTGCGCTTGCGTGGGTGTGGGGCCTGGGA  
GGAGGTCTTGGGGCGTGACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTACCCCCCGGTGCTG  
CTGGTTAATGTCCCGCGTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTCACATTCTCAAGTTTTTC  
TCATCTGCATTAGAGGTGCCAGTAGGTTCCAGGTTCCAGCGTGCCCCCTCCCTCAGACACAGGACACAATCAG  
CCGAGAAGTTCCTGGTCTGAATCAGGAGAATGTGGAGGGGTGGGGGTGTGAGTGGAAAGGCATAAGGCTGAGCT  
GAGACCAGTTGCTGGTGAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTTCTGAGGGTCTGCT  
TTGTTTACCTTTGCTGCGGTGGATTCTTTTTAACTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA  
ATAAAAACCATTTGAGT

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**FIGURE 5291**

MEVQKEAQRIMTILSVWKMYHSRMQRGGLRLHRSLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPR LHPPR  
EAESTAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE  
GASSEVADRLQPPPAQEGAFPNLARVLQRRFSGLLNCSAPAAPTAPPACEAKPACRPADSMNLNVLVRVAVAF

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**FIGURE 5292**

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCAATGACCCTGGAGGCGATC  
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC  
TCGGTGCACCAAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCGGCCATAGCCCTGGTGGGCTGT  
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC  
AAGCTGAGCTTCCTCGTCACCGCCCGGCCACCGCTGTCAACATGGCCCGCGCCCGCGACCTGGCTGATGTT  
GCAGCCCGGGAGGCCGAACGGGAGGGCGCTACGGAAGAGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC  
ATGCTGGAGAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC  
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACACTGGTGCTCTGGCCACCGCTGGCTATGGTACAGCC  
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATACCAGGCAGAGGGAAGTCCACTGCGAGGGGCC  
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC  
ACCCTGTCTGTTTGCCCTCCCGGGGCCCTTCTCCTGGTGGGTGGGGCCCCGCAGGTGTGATTGCTCACTGCA  
CAGCCTGGGCGCCTGGAGCATGCCTTCTGCACAGAGACCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT  
TGAGCTGGTCTATGAGCAGATCCC



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**FIGURE 5293**

MTLEAIRYSRGSLSQILDQLLLPKQSRYEAVGSVHQAWEAIRAMKVRGAPAIALVGCLSLAVELQAGAGGPGLAAL  
VAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAREGATEEEAVRERVICCTEDMLEKDLRDNRSIGDLGARH  
LLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGARLTAFELVYEQIPATL  
ITDSMVAAAMAHRGVS AVVVGADRVVANGDTANKVGTYQLAIVAKHHGIPFYVAAPSSSCDLRLETGKEIIIEER  
PGQELTDVNGVRIAAPGIGVWNPAFDVTPHDLITGGIITELGVFAPEELRTALTTTISRDTLDGDPQM

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**FIGURE 5294**

GAATTAAAAAAGCCTTATTTATTATCATTTCCTCCACCGTTGGCATGGCAACACAGGCGTATACTGA  
GCTACAGGCAGCCCCGCCACCATCCCAGCGGCCACAGGCCCCGCCACAAGCCAGCCCCAGCGGCCACCGCCACC  
ACCCCCAGCGGCACCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTCACCGAGCT  
GCAGAGCCCCAGCCCCAGGCACAGCCACCGGGTGGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC  
ACCTTCGCAGCCAACCGGTGCACCCACCCCTTCGCCTGCACCCAGCAGTACATCGTGGTCACTGTCTCTGAAGG  
TGCCATGCGGGCCAGCGAGACAGTGTGCGAGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGCGTTCTACTCA  
GGTGGTTTACGAGGTGCAGGGCACCAGCAGCGGCTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT  
GTCGCCCCCTCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCCACGCAGCGTCTGGTGGTGCAGAGCGC  
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCCAGAGCA  
GTCGCCGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCGGGGCCCCACGGGCACAGTGCCACAGCAGCTGCA  
GGTCCACGGCGTCCAGCAGAGTGTCCCGTCAACCAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA  
ACCCGGCCCGGTGCAGCGCTGACCGTGCAGGGCCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA  
GCAGGTGCCCCGTCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG  
TGCCATCCGTTCCAGCACCTACTCTATCCCGAGACGCCGTGTACACGCAGACGGCAAGCACCAGCTACTACGA  
GGCCGCAGGCACGGCCACCCAGGTGCAGACCCCCGCCACCTCCAGGGCGTGGCCAGCAGTGGCTCCATGCCCAT  
GTACGTGTCCGGCAGCCAGGTGTCGCCAGCTCCACAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG  
TGGCAGTGGTGGTGGCGGGCGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCGGAGGCGGGCGGAG  
CGGAGCAGGCACCTACGTGATCCAAGGCGGTACATGTGGGCAGTGCACCCAGTCTTACTCTCACACCACCCG  
TGCCCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAATATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC  
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCGTCAACGCCGCTCCTTCGGCAAGCT  
CATCCGCTCCGTCTTATGGGCTGCGAACCCGCCGTCTGGGCACCAGGGGCAACTCCAAGTACCACTACTATGG  
CCTGCGCATCAAGGCCAGCTCACCCCTGCTGCGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGGCCAGCC  
CTTCTCGCAGAAGCAGAGGCTCAAGCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA  
GCCGAGCACGGGGCTGTGCGACATCAGCGCCAGGTGCAGCAGTACCAGCAATTTTGGATGCCTCTCGGAGCCT  
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTCCGGGCCGGGGACATCAAAGCCTT  
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTGACGTCATGGTGAACCTGCAGTTCACCTGGTGGAGAC  
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCCAGTGAGGCGCCACCGCTGGCTGTACATGACGAGGC  
CGAGAAGCGACTGCCCAAAGCCATCCTGGTGTCTCTCCAAGTTCGAGCCCGTGTCCAATGGACCAAGCACTG  
TGACAACGTGCTGTACAGGGCCTGGTGGAAATCCTCATTCCCAGCGTGTGCGGCCCATCCCCAGTGCCTTGAC  
CCAAGCGATCCGGAACCTTGGCAAGAGCCTGGAGAGCTGGCTCACCCACGCCATGGTCAACATCCCCGAGGAGAT  
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGGCGCTACACGTGCTCAACCACCTGGC  
GCAGGCGGCGCGCTGTGTGTCAGAACACCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGGTGGACTT  
CGCCAACGTGCAGGAGCAGGCTCGTGGGTGTCCGCTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT  
CAAGGTGACGCTGCAGCAGCAGAACTCGCTGGAGCAGTGGGCGGCTGGCTGGACGGCGTGGTGAAGCAGGTGCT  
CAAGCCCTIACCAGGGCAGCGCGGCTTCCCCAAGGCCGCCAAGCTCTTCTCTCAAGTGGTCTTCTACAGCTC  
CATGGTGTACCGGGACCTGACCTGCGCAGCGCCGCCAGCTTCGGTTCCTTCCACCTCATCCGGCTGCTCTACGA  
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCCAGGCCAAGGGCGAGACCCCCATCGCCGTATGGGCGA  
GTTCCGCCAATCTGGCCACCTCCCTGAACCCCTGGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAG  
CGAGGACGAGCTGCCGAGGACATCTACTGGCGGTGGCGGCGAGTCAACCGCGCTGGGCCCCGAGACCCCTGGA  
GCCGCCGGCCAAGCTGGCGCGGACTGACGCGCGCGGCTCTTCGTGCAGGCGTGCCTCCAGCTAAGCCCTTGG  
CCTCCCCGCCCCACCCGCCCCCGCCACCCCTCCACGCCAGGGTCCC

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**FIGURE 5295**

CGCGTCCGCCGATTCTCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGC  
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC  
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC  
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCAGC  
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGAGACCCAGCACGTGTCTCCTATGCGCC  
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA  
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA  
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC  
AGCTGGAGGCCTGTGTGCGCTCTATC

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**FIGURE 5296**

MATNFLAHEKIWFDFKFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPGSDHSELVVRIASLEVENQSLRGVVQ  
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVS PMRQVESPAKKPASPAEDDEDDIDLFGSDNEEDKEAAQL  
REERLRQYAEKAKK PALVAKSSILLDVKPWDD ETDMAQLEACVRSI EL DGLVWGTSKLMPVGYGIRKLQIQCVVE  
DDKVGTYLLEEEITKFEEHVQSVDIAAFNKI

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**FIGURE 5297**

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT  
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT  
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA  
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG  
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC  
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG  
GACCTCCAAGCTGATGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGT  
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA  
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCGTGCGTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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**FIGURE 5298**

CAGTGXGCTCCGGGCGCGCGGCCGAGCCAGCACCCGCGCGCCGAGCTCCGGGACCGGCCCCGGCGCGCGCG  
CCGCGATGGGCAACGCCCGCGCGCCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA  
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCGCTCAGAACACAGCCCACTTGGATCAGTTTGAACGAATCAAGA  
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAAACACAAGGAGACCGGGAACCACTATGCCATGAAGA  
TCCTCGACAAACAGAAGGTGGTGAAACTGAAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG  
TCAACTTTCGGTTCCCTCGTCAAACCTCGAGTTCTCCTTCAAGGACAACTCAAACCTTATACATGGTCATGGAGTACG  
TGCCCCGGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTTCAAGTACGCCCCATGCCCGTTTCTACGCGG  
CCCAGATCGTCCGTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAATCTGC  
TCATTGACCAGCAGGGCTACATTGAGGTGACAGACTTCGGTTTCGCCAAGCGCGTGAAGGGCCGCACTTGGACCT  
TGTGCGGCACCCCTGAGTACCTGGCCCCGTGAGATTATCCTGAGCAAAGGCTACAACAAGGCCGTGGACTGGTGGG  
CCCTGGGGGTTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCATCCAGATCTATG  
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACTTCAAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC  
TGCAGGTAGATCTCACCAAGCGCTTTGGGAACCTCAAGAAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG  
CCACAAGTACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTTCATACCAAAGTTTAAAGGCCCTGGGG  
ATACGAGTAACCTTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTT  
CTGAGTTTTAGGGGGCATGCTGTGCCCCATGGGTTTTCTTTTTCTTTTTCTTTTTTTGGTCGGGGGGGTGG  
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCCTTGCACTCAATTTACCCCCACCCACCTCCAGGGT  
TAGGGGGAGCAGGAAGCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCTTACCCCTCCT  
GCCCCCTCTCCCACTTTTCCCTTCCCTCTTCCCCACAGCCCCCAGCCCCCTCAGCCCTCCCAGCCCACTTCTGCC  
TGTTTTAAACGAGTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGTATCCAGGGACAGGGTATGGAAAGAGG  
GGCTCACGCTTAACCTCCAGCCCCACCCACACCCCATCCCAACCAACAGGCCCACTTGTCTAAGGGCAAAT  
GAACGAAGCGCCAACCTTCCCTTCGGAGTAATCCTGCTGGGAAGGAGAGATTTTAGTGACATGTTCAAGTGGGT  
TGCTTGCTAGAAATTTTTTAAAAAACAACAATTTAAATCTTATTTAAGTTCCACCAGTGCCTCCCTCCCTCCT  
TCCTCTACTCCCAACCCCTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTGGAAA  
GGGAGGCGCTGGGGTTTGAACCTCCCCGCTGTAATCTCCCTGGGCCCCCTCCCGGGGAATCCTCTCTGCCAAT  
CCTGCGAGGGTCTAGGCCCCCTTAGGAAGCCTCCGCTCTCTTTTTCCCCAACAGACCTGTCTTACCCTTGGGCT  
TTGAAAGCCAGACAAAGCAGCTGCCCTCTCCCTGCCAAAGAGGAGTCAATCCCCAAAAGACAGAGGGGGAGCC  
CCAAGCCCAAGTCTTTCTCCAGCAGCGTTCCCCCAACTCCTTAATTTTATCTCCGCTAGATTTTAACGTC  
CAGCCTTCCCTCAGCTGAGTGGGAGGGCATCCCTGCAAAAGGGAAACAGAAGAGGCCAAGTCCCCCAAGCCACG  
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGAGGGGCTGCCTGTTTTACTACCCACCAGCTTCCGCTCCCCCAT  
CCTGGGCGCCCCCTCCTCCAGCTTAGCTGTGCTGCTGCTCCTCCTCCCCACTTCTCATTGTGCTTTTTTC  
TCTCGTAATAGAAAAGTGGGGAGCCGCTGGGGAGCCACCCATTCAATCCCCGTATTCCCCCTCTCATAACTTCT  
CCCCATCCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGGCGATTCAACCTGTGTGCTG  
CGAAGGACGAGACTTCTCTTGAACAGTGTGCTGTGTAAACATATTGAAAACATATTACCAATAAAGTTTGT

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**FIGURE 5299**

MGNAAAACGGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL  
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMMEYVPGGEMFSHLRRIGRFSEPHARFYAAQ  
IVLTFEYLSLDLIYRDLKPENLLIDQQGYIQVTDGFAKRVKGRWTLCGTPEYLAPEIILSKGYNKAVDWWAL  
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT  
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSINEKCGKEFSEF

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**FIGURE 5300**

AGATTTGAAGGCGGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGGACCTGGTCAG  
CCCTACCCCACTGACCCCAACCGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCTGCCCCCTGCTGCGGCGCG  
GCGAGGCGAGGCGATGCGCAAGGTGTCGGTGCTGAACGTGGCGGTCTCTGGAGAACCCGAGCCCTTTCCACAGCCC  
CTTCCGGTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGAAGATCATTATGTTGG  
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT  
GTTTGTCTTTCAGGCGGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT  
CATCACTGCACCTACCATGGACAGGAGTTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCTGA  
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGGCCTCGAACCCCGGGT  
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG  
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA  
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCCAGCACGCCGGGAGGGGCAACCAGGCCTCCCA  
GCGAGTCTGTCAGGGCCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAACCTCAGCCCT  
AGGAAAGAACAGGCCTTGGGTCTCCCTAGTCTGGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA  
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC  
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCACAGACCTCCCTGGCCCCACCTAGAGGCTTTCTTGG  
TCAGTGCCTGTCAAGGCTCCAGTCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA  
GACCCACTCCAGCTTCTGCTGTACAGGCGGGAATGTTAGTTAGTAGGTAGACTTAGATCCCATTCTGTCTCTG  
CTCCCAGGAAGATTCTTAGGTCCTCTTCAATCCAGCAGCCCTCCAGAGGTGTGATCAGCAGGATGCTGAGGAA  
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCCTGTTATCTCCTAAATGGATCTGGCTTTTCTGAGGCTG  
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGGTCAGGGACCCTCTGCCT  
CTGGCAGCCTTAACCTGTCTCTGCTAGGACCAGGGTGATTTCAAGCCAGGGAAGCAACTGGGACCCTGAAAAC  
GTCCCTCCCCAGCCGCTCCCCCTCTCTGTGCCCTGGTCCCCTTGCCGCCATGTGGATGCTGTGTGATTGCTGT  
TTGTATATTATCAAAATGTTTTATATTAAAAATGTTTGGTCTGAAAATT



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**FIGURE 5301**

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSVLVGPVPAGRHMVFVQ  
ADAPNPSLIPETDAVGVTVVLIITCTYHGQEFIRVGYYVNNEYLNPELRENPPMKPDFSQLQRNILASNPRVTRFH  
INWDNNMDRLEAIETQDPSLGCGPLNCTPIKGLGLPGCIPGLLPENSMDCI

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**FIGURE 5302**

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA  
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC  
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC  
TGGCTTCCGGGACTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCCTTCTGA  
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCCTGTGCCAGGCCAAGTCCGGGATGGGCAA  
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCTGGTCATGTG  
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCAGCGTCAAGGT  
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTGAAGAAGAACTGTCCCCATGTCGTGGT  
GGGGACCCCGGGCCGCATCCTGGCGCTCGTGGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT  
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTTCCGCCTGACACCACA  
CGAGAAGCAGTGTCATGATGTTTCAGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTCATGCAGGA  
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA  
AGACAGTGAGAAGAACCACAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAACCAGGTGATAATCTTCGTCAA  
GTCAGTGCAGCGCTGCATGGCCCTGGCCCGAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG  
CATGGCCAGGAGGAGCGCCTGTACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA  
TCTGTTTGGCCGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC  
CTACCTGCACCGGGTGGCCCGGGCGGGTCGCTTTGGCACCAGGCGCTAGCCATCACTTTTGTGTCTGACGAGAA  
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT  
CTCCACATACATCGAGCAGAGCCGGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCGCCCGCATGCAGCTT  
CACCTCCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTTATTATG

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**FIGURE 5303**

ACGCGCGCTCCTCTGGCCGCCCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG  
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGCCCCCG  
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGAAATCCGCAAGGAGCTGAAGCTGAAGGAGG  
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCGCAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT  
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCCACGTGGTGTCTCCCGACCCGGCGG  
CCACCCACGATGGCCCCCAGTCCCTGGTGGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGGCGG  
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG  
GCAGACCAAGGACCGGAAGCTGCTGCTGACAGCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA  
TCCGCATGCAACTCCGCGGGCGCTGCAGGCCGGCCAGCTGGAGAACCAGGCAGCCCCGATGACACCCAAGGGA  
GTCTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGGAGCACGCGTGGCCG  
AGGGTGCCAAGAACGTACTGCGCCTGCTCAGCGCTGCCAAGGCCCGGACCGCAAGGCAGTCAGCGAGGGCCAGG  
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG  
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTGCTGCGGCTCCTCCGCTGCTTCAGCACCCGCTGG  
CCGGGCCCCCTTCCCGCCACGCACTACAGCACCTGTGCAAGCCCCGCGCCGCTCACAGGGACCCTGGAGGTACGAG  
TGGTGGGCTGCAGAGACCTCCCAGAGACCATCCCGTGAACCCCTACCCCTCAATGGGGGGACCTGGGACCCAG  
ACAGCCGCCCCCTTCTGAGCCGCCAGCCCCGGGGCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA  
GCCTCAAAGCAGAAGCCGAGAACACCAGTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA  
CGTCTTGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAGGGCACGGGAAGTGG  
AGTTGGCTGTGTTCTGGCGGGACCAGCGGGGCTGTGTGCCCTCAAATTCTGAAGTTGGAGGATTTCTTGGACA  
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTCACTTCCGCAACCCCTG  
TCATTGAGAGGATTCCTCGGCTCCGACGGCAGAAGAAATTTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG  
CTAGGCAGATGAACATCGATGTGCGCCAGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG  
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCACGGGTGACATATCGGTGGAGAAGCTGAACC  
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC  
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCGGCCCTGTGCAGCCCTC  
TGAGGAAGTCACCTCTGACCCTCGAAGATTTCAAGTTCTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC  
TCCTCTCCGAATTCGGGCCAGTGGGGAGCTGTTGCCATCAAGGCTCTGAAGAAAGGGGACATTTGTGGCCCGAG  
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAGTGCGGGACACCCCTTCTTGGTGA  
ACCTCTTCGGCTGTTTCCAGACACCGGAGCACGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC  
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTATTCCGCTGCGTGGTGTGGGCTACAGT  
TTCTTACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA  
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG  
AGTTCTTGGCCCCCTGAGGTGCTGACGGACACGTGCTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC  
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG  
ACGAGGTTGCTACCCCCGCTTCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG  
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTCAGGACTCTGGGCTGGG  
AAGCCCTGTTGGCCCCGGCGCTGCCACCGCCCTTGTGCCCCACGCTGTCCGGCCGCACCGACGTGAGCAACTTCG  
ACGAGGAGTTACCGGGGAGGCCCCACACTGAGCCCGCCCCGCGACGCGCGGCCCCCTCACAGCCGCGGAGCAGG  
CAGCCTTCTTGACTTCGACTTCGTGGCCGGGGGCTGCTAGCCCCCTCCCCTGCCCCCTGCCCTGCCCTGCCCG  
AGAGCTCTTAGTTTTTAAAAAGGCCTTTGGGATTTGCCGG

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**FIGURE 5304**

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDIGRSLGPVEL  
LLRGSSRRDLHLHQQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELKVKQGAENMIQ  
TYSNGSTKDRKLLLTAAQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSDDLGAVELRIEELRHHFRVE  
HAVAEGAKNVLRLLSAAKAPDRKAVSEAEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF  
STRLAGPFFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTPDSRPPFLSRPARGLYSRGSL  
SGRSSLKAEAEENTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRGKALKFLKLE  
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQOGKAFQRRQMNIQVATWVRLRLRLIPN  
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGSDSSPQKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGA  
LCSPLRKSPLTLEDFKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH  
PFLVNLFQCFQTPHEVCFVMEYSAGGDLMLHIHSDVFSEPRAFYFYSACVVLGLQFLHEHKIVYRDLKLDNLLDT  
EGYVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPPFGDDEEEVFD  
SIVNDEVRYPRFLSAEAGIMRRLRRNPERRLGSSERDAEDVKKQPFERTLGWEALLARRLPPPFVPTLSGRTD  
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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**FIGURE 5305**

CACGGGGAGGCGGAGGCAGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGAGCAGATCTTCTGGTGACCCAC  
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGGGAAAAAGGCGCCCCCTCTAGTGGAAAATGAGGAGGCTGAG  
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTGCGGGGGCCCCCAAATGGGC  
TTGCCCCCCCCCTCCCCAGCCCTGCGGCCCCGCTCGTGTTCACACCCAGCTGGCCCATGGCAGTCCCAGTGGC  
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCCGCCTGCCAACTGCCGAG  
GTGATGTTCTGCACCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC  
TTATCTTTCGCCCACGTGAAGGGGCAGCGCAAGGAGGTGGAGGTGTTCAAGTCGGAGGATGCACTCGGGCTCACC  
ATCAGGACAACGGGGCTGGCTACGCCCTTCATCAAGCGCATCAAGGAGGGCAGCGTGATCGACCACATCCACCTC  
ATCAGCGTGGGCGACATGATCGAGGCCATTAACGGGCAGAGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCCG  
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC  
AGCCAGCGTTTCAGCGGGTGGCCGCCCTGGCTCTGGCCACAACCTGGGCACTGGCCGAGGGACCCTGCGGCTCCGA  
TCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCCTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG  
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC  
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCTTCCCTGACGAGTTCGTCTTTGACGTC  
TGGGGCGCCATTGGGGACGCCAAGGTCGGCCGCTACTAGGACTGCCCCCGGACCCTGCGATGATGACCCGGGCGC  
AACCTGGTGGGGGCCCCCAGCAGGGACACTGACGTCAGGACCCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC  
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCCGCTCCAATCGGTACCATCCCCCTCCCTGGTTCCC  
AGTCTGGCCGGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA  
GGGATCAGCCAAATTGGGCGGCCACCCCGCCTCCACCATTTCACCATCAGCTGCCAAACTGGTCCCTCTGTC  
TCCCTGGGGCCTTGGGTTCTGTTTGGGGGTGATGACCTTCCTAGTTTCCTGACGCAGGGAATACAGGGGAGAGGG  
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA  
CCTCCGCATTTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT  
CCCTGGCCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAACATA  
AAGAATCTATCTGCTGTT

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**FIGURE 5306**

MPLGLGRRKKAPPLVENEEAEFGRGGLGVGEPGLGGGSGGPQMGLPPPPALRPRLVFHTQLAHGSPTGRIEG  
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN  
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS  
AGGRPGSGPQLGTGRGTLRLRSRGPATVEDLPSAFEKAIEKVDDLLESYMGIRDTELAATMVELGDKRNPDEL  
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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**FIGURE 5307**

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC  
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA  
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACCTAAGACCCATCC  
GCAGTGGTACCCCGCCGCCAGTCCCTCCGCCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTCTGCA  
GAAGCTGCCCCTGGGCACCACGGCCACACTGTACTTCCGGGACCTGGGGGCCAGATCAGCTGGGTGACGGTCTT  
CCTAACAGAGTACGCGGGGCCCTTTTCATCTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA  
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG  
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC  
CTACTACTGGGGCTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACTCTCCCTACCTACGGAGC  
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG  
GGACCTGCGGCCCCGCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCTTCACGTGGCTCTTCCT  
GCTGGTGTCTGCCCCAACTACACCTACGAGGTGGGGTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC  
AGTGGCCCTGTTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAA  
GGAGTTCCGGGACTACCCGCCCTGCGCATGCCCATCATCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGC  
TCAGCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC  
CTGCCCCAGTC

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**FIGURE 5308**

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG  
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACCTCATGGAGACCCCCGCGGCCGC  
CGCCCCCGCTGGGAGCTTATTCCTCTCTTCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCCTTGCTGGGCGC  
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA  
CGTGGCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTCACGCTGGTTCGGTGGGCACATTTCCCGCTGCT  
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACACGCCATGAGGTACAGGCCGTCTTTGCTGCTGATGC  
TATGGCCCCGCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTCACCAACACGGTGACTGC  
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG  
GGGTGCGCTCCAGGCTGTTGATCAGCTGTCCCTTTCCGGCCACTCTGTAAGTTTTGTGTGCTGTGCGGAGGGT  
GCGGGACATTGTGCCACCCCTGAGGGCCGCGATGGCTGCCGCCAGTCGGGCACCCAGGTCCGGTGTGTTGTGGA  
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGCCAGCCAAGCCACCCAGGGCCT  
CGTGGGCGGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGCAGGAGCCTGGGAGCCTCAGCC  
CGAGGGACCGTGTCCCTGGACATCCCCAGGCTTCCCCGCAGCAGGTTTCAGCGCTGTGTGGAGATCCTGAGCCG  
GGCCAAGAGGCCCTCTGATGGTGTGGGAGTCAAGGCCCTGCTCACCCCAACGTTCTGCCGACAAGCTTCGGGTGTC  
CGTGGAGACCTTGGGTGTTCCCTGCTTCCTTGGAGGGATGGCACGGGGGCTGTTAGGCCGCAACCACCCCTCCA  
CATCCGGGAGAACCGCAGTGCAGGCCCTGAAGAAGGCGGACGTCATTGTCTAGCAGGAAGTGTGTGTGACTTCCG  
CCTATCCTATGGCCGTGTCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT  
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCTTCGTGCTGAAGTTAGTGGA  
GGGCCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAGGAGCAGAC  
CTTTCGGGAGAAAGCAGCGATGCCGTGTGGCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC  
GCTACCTGACAACTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCCATCTGGTACAGCCCCG  
CGGCCCCCTGCGTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGCAGGATTTGCACTTGGGGCCAA  
GCTGTGCCGGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGGACGGAGCTTTGGCTACAGCCTCATCGAATTTGA  
TACATTCGTGACACACAAGATCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA  
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATCACAAGGCAGCCATGGGTCT  
GGGGGCCCCGGGCTTGCTGCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCAGCAGCA  
GTGCCGAGACGGCCACCCGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT  
**ATAG**GGCCTTGTTGGGTCAAGACGCTTGGCTGCCTTCCTCCCCCTGGACTGTGTCCAGCTGGTTGGAGTCTCATC  
ATTGCTTGCCCTGGGCCTATCCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAA  
TCTCAGAGAGGCTCTCTTGTGAGCTCTTGACCCTCCTCTTACGGACCCAACTGTGCCGTTTGTCCCCTCTCTT  
ATGGAGACTGAATAAACCACTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5309**

METPAAAAAGSLFPSFLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVAAVLRAHGVREIFTLVG  
GHISPLLFACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAVTAGPGLTNTVTAVKNAQMAQSPILLGGAA  
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVPTLRAAMAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP  
AKPPKGLVGRVVSWEYLENYLANLFAGAWEPQPEGPLPLDIPQASPPQVQRCVEILSRAKRPLMVLGSQALLTPTS  
ADKLRAAVETLGVPFCFLGGMARGLLGRNHPLHIRENRSAAKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR  
NREEMLLNSDIFWKPEAVQGDVGSFVLKLVEGLQGQTWAPDWVEELREADRQKEQTFREKAAMPVAQHLPVQV  
LQLVEETLPDNSILVVDGGDFVGTAAHLVQPRGPLRWLDPGAFGTLCVGAGFALGAKLCRPDAEVWCLFGDGAFG  
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV  
LHDAQQQCRDGHVPVVNIIIGRTDFRDGSIIV

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**FIGURE 5310A**

CGGGCGCGGAGGCTGGCCCCGGGACGCGCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGGTTCGCGGCCGCGCCG  
CATGGGGCGGGGGCCCCGTGGCCGCCGCCGCCCGCTGCCCCGATGTGCGCGCCACCGCCACCGCCACCCGTGCG  
GGCGCTGCCCCGTGCTGCTGCTGCTAGCGGGGGCGGGGGCTGCAGCCCCCCTTGCCCTGGACGGAAGCCCGTGTGC  
AAATGGAGGTCGTTGCACCCAGCTGCCCTCCCGGGAGGCTGCCTGCTGCCCCGCTGGCTGGGTGGGTGAGCG  
GTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCTGTGCTGGCCGTGGTGTCTGCCAGAGTTCACTGGTGGCTGG  
CACCGCCCGATTCTCATGCCGTGCCCGCTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTCAG  
CAGCCCTTGTGCCCACGGTGCCCGCTGCTCAGTGGGGCCCCGATGGACGCTTCCCTGCTCCTGCCACCTGGCTA  
CCAGGGCCGAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGCCT  
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTGCC  
CTGTGACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCTGTCT  
TCTTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGGAC  
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCTCCTGAGTGGACAGGCCAGTTCTGCACGGAGGACGT  
GGATGAGTGTGAGCTGCAGCCCCACGCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG  
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAATATCGATGACTGTGCCACAGCCGTGTGCTTCCA  
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCTGCCCATGGGCAAGACTGGCCTCCTGTGTCA  
CCTGGATGACGCTGTGTGACGAACCCCTGCCACGAGGATGTATCTGTGACACAAATCCGGTGAACGGCCGGGC  
CATTTGACCTGTCTCCCGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA  
CCCCTGCGAGCACTTGGGCAGGTGCGTGAACACGACGAGGCTCCTTCCCTGTGCCAGTGCCTGCTGGCTACACTGG  
ACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGCCCTGCCGAAACAGGCCACGTGCCTCGACCGCAT  
AGGCCAGTTACCTGTATCTGTATGGCAGGCTTACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG  
TAGCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCAGCTGCACCTGCCCCCTCGGGCTTCA  
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCCGACGACGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA  
GCCCGATGGCTACGAGTGGCGTGTGCCGAGGGCTTTAGGGGCACGCTGTGTGATCGCAACGTGGACGACTGCTC  
CCCTGACCCATGCCACCATGGTTCGCTGCGTGGATGGCATGCCAGCTTCTCATGTGCTGTGCTCCTGGCTACAC  
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGACGCCAGCCCTGCCGCCATGGCGGCCAAATGCCTAGACCT  
GGTGGACAAGTACCTTGTGCCGTGCCCTTCTGGGACCACAGGTGTGAACTGCCGAAGTGAACATTGACGACTGTGC  
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTCAC  
AGGGCCCCCTTTGTAACTGGAGATCAATGAGTGTGCTTCCAGCCCATGCCGCGAGGGAGGTTCTGTGTGGATGG  
GGAAATGGCTTCCGCTGCCTTGTGCCCGCTGGCTCCTTCCCCCACTTGCCTCCCCCGAGCCATCCCTGTGC  
CCATGAGCCCTGCAGTCACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGGAG  
TGGCCCCGCTGCAGCCAGAGCCTGGCCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGCAG  
CAGCGATGGAATGGGTTTCCACTGCACCTGCCCGCCTGGTGTCCAGGGACGTCACTGTGAACTCCTCTCCCCCTG  
CACCCGAACCCCTGTGAGCATGGGGGCCGCTGCGAGTGTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCCA  
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGCACCCGTGTGGCCCTCATGGTAT  
CTGCACCAACCTGGCAGGGAGTTTCACTGCACCTGCCATGGAGGGTCACTGGCCCTTCCCTGCGATCAGGACAT  
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTTCTGCTCCTG  
CCTCCCTGGTTTCCGCGGCCACGATGCGCCCGCATGTGGATGAGTGCCTGAGCAACCCCTGCCGCCCCGGGCAC  
CTGTACCGACACGTGGCTCCTTACCTGCACCTGCCCGCCAGGCTACGGAGGCTTCCACTGCGAACAGGACCT  
GCCGACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAACCTCGTTCACTGCTGTG  
CCGTCCCGCTACACAGGAGCCCACTGCCAATAGAGGACAGCCCTGCCTCTCGCGGCCCTGCCTACACGGGGG  
CGTCTGCAGCGCCGCCACCCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACGGGGCCGAGTGCCAGACGCT  
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAACGGGGGTGCTGCGTCCAGACTGGGGCCTATTGCCTTTGTCC  
CCCTGGATGGAGCGGACGCTTGTGACATCCGAAGCTTGCCCTGCAGGGAGGCCGACGCCAGATCGGGGTGCC  
GCTGGAGCAGCTGTGTGAGCGGGTGGGAGTGTGTGGATGAAGACAGCTCCCACTACTGCTGTGCCCAGAGGG  
CCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCAGCCCTGCCAGCATGGGGGGACCTGCCG  
TGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGACGA  
GTGTGCTTCCAGCCCTGCCAGCAGGGGGTTCATGCATTGACCTCGTGGCCCGCTATCTGCTCCTGTCCCC  
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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**FIGURE 5310B**

GTGCCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCAGGATACACTGGTTT  
GCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA  
CCCAGGCGGAGGTTTCCGTTGCCCTTTGTCTATGCTGGCTTCTCAGGTCTCGCTGTGAGACTGTCTGTCTCCCTG  
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCTAGCCCGGGTCTGGGGGTGGGCTGACCTTCACCTG  
TCACTGTGCCCAGCCGTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCGGT  
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCTGCCCGCCAGGGTTGTGGGACCCCTCTGCCG  
CAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCCTG  
CCGCCCCGCGCGCTGCGCGCCCTTCTCCGCTGCGCTTGCAGCGAGGGCTGGACCGGGCCGCGCTGCGAGGCGCC  
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACACGCG  
CTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGCGACTGCTCGCTGAGCGTGGGCGACCCCTG  
GCGGCAATGCGAGGCGCTGCAGTGTGGCGCTCTTCAACAACAGCCGCTGCGACCCCGCTGCAGCTCGCCCCG  
CTGCTCTACGACAACCTTCGACTGCCACGCCGGTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG  
CGCCGACCACTTTGCCGACGGCCGCTGCGACCAAGGGTGCAACACGGAGGAGTGCAGGCTGGGATGGGCTGGATTG  
TGCCAGCGAGGTGCCGCGCCCTGCTGGCCCGCGCGCTGCTGGTGCTCAGTGCTGCTGCCGCCAGAGGAGCTACT  
GCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCCTGCGCACCTCGCTGCGCTTCCGCTTGGACGCGCA  
CGGCCAGGCCATGGTCTTCCCTTACCACCGCCCTAGTCTGGCTCCGAACCCCGGGCCCGTGGGAGCTGGCCCC  
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCCGTCAGTGCCTGAGAATGATCACTG  
CTTCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGAGCGGTGGAGCGCCTGGACTTCCCGTACCC  
ACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGGCGGG  
CGCTGTCTTGTGCTGGTCAATTCTGCTCTGGGTGTGATGGTGGCCCGGCGCAAGCGCGAGCACAGCACCCCTCTG  
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTCAAGGGCCGCGCGGAACCCGTGGGCCAGGA  
CGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA  
GTGCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGATGGGGGCTGAGGAGGCTGTGGATTGCCGTAGTG  
GACTCAACACCATCTGGTGTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACACAGGGCGACGC  
AGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCTTCTGTGG  
GGGGGCTCTGGAGCCAAAGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT  
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTGCACCTGGCTGCCCGTTATGC  
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCAGGACCACTCAGGCCGCACTCC  
CCTGCACACAGCTGTACAGCCGATGCCAGGGTGTCTTCCAGATTCTATCCGAAACCGCTTACAGACTTGGA  
TGCCCGCATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCTGGCAGTAGAGGGCATGGTGGAAAGAGCT  
CATGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA  
CAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC  
CCTATTCTTGGCCGCCCCGCGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTGAGGACCTTTGCCAACCGTGAGAT  
CACCGACCACTGGACAGGCTGCCGCGGGACGTAGCCAGGAGAGACTGCACCAGGACATCGTGCCTTGTGGA  
TCAACCCAGTGGGCCCCGAGCCCCCGGTTCCACAGGCTGGGGCCTCTGCTCTGTCTCCAGGGGCTTCTCT  
CCCTGGCTTCAAAGCGGCACAGTCCGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGCTGGGGCCGCA  
GGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCCGGGCCCCCTGGCTGACAGCTCGGTACAGCTGTG  
GCCCCGTGGACTCGCTGGACTCCCCGCGGCCTTTCGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTTAGGG  
GCCCTATGCAGCTGCCACTGCCACTGCAGTGTCTTGGCACAGCTTGGTGGCCCAGGCCGGGCGGGTCTAGGGCG  
CCAGCCCCCTGGAGGATGTGTAATCAGCCTGGGCTGCTGAACCTGTGGCTGTGCCCTCGATTGGGCCCCGCT  
GCCCCACCTGCCCTTCCAGGCCCTCGTTCTGCTGCCACTGGCGCCGGGACCCAGCTGCTCAACCCAGGGAC  
CCCCGTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCCAGGACATGGCGAGGAGTACCCGGCGGCTGG  
GGCACACAGCAGCCCCCAAGGCCCCGCTTCTGCGGGTTCAGTGAGCACCTTACCTGACCCATCCCCGA  
ATCCCCGTAGCACTGGGCCAGCCCCCTACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCCAGCCAC  
TGCCACTGGGGCCATGGCCACCACCTGGGGCACTGCCTGCCAGCCACTTCCCTGTCTGTCTCCAGCTCCCT  
TGCTCAGGCCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG  
TCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCCGCTGCTGCTCTTCTTCTGTCTCTTCTCTCTTTT  
AGTCTTTTTCATCTCTTCTTTTCCACCAACCTTCTGCATCCTTGCTTGCAGCGTGACCGAGATAGGTCACT

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**FIGURE 5310C**

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCTCTCAGTCTTGTGAAGAGTC  
TGGGACCTCCTTCTTCCCCACTTCTCTCTTCCCTCATTCCCTTCTCTCTCCTTCTGGCCTCTCATTTCCTTACAC  
TCTGACATGAATGAATTATTATTATTTTTATTTTTCTTTTTTTTTTTTACATTTGTATAGAAACAAATTCATTTA  
AACAACTTATTATTATTATTTTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC  
CCCCGTGGGGCTGAGTCTGTGGGCCCATTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA  
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGGTC  
GGGGGAGTGTTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG  
CCTTGCTGGGGAAGGGCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTGGGAACTAG  
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTGTGTCCCTGTAAATGTGGGACTACAA  
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCTGTTAATCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT  
TTTTAGGCTATTTTTGTAAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA  
GCCCCCACTCCCTCACCACTAATAAAGGAATAGTTAACTC

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**FIGURE 5311**

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT  
TAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC  
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAAACAAGCTTGACC  
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT  
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA  
AGGTCAACACCCTGATTCGGCCTGATGGAGAGAAGAAGGTATATGTTGACTGACTCCTGATTACGATGCTTTGG  
ATGTTGCCAACTATATCTTTTACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA  
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTACCCCTGCCA

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**FIGURE 5312**

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG  
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG  
AGCTGGACGGCGAGCGCGAGCGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG  
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG  
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTGAGG  
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG  
TCATCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCAGGAGGTGTCTGAACTAAAAATGTGGTGACCTGGAAG  
AAGAATCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA  
AATATGAAGAAGAAATTAAGTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA  
CGGTTGCAAACTGGAAGAGCAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAGAGAACGTGGGCT  
TACATCAGACACTGGATCAGACACTAAACGAACCTTAAGTATATAAGCAAAACAGAGAGTCTTGTTCCAAACAG  
AAACTCTGGAGCTCCGTGGGTCTTCTCTTCTCTTGTGAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTTGCTG  
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA  
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCTTATTTTTTTCCTTAAGTAGCATTATTCCT  
AAGGTAGGCAGGGTATTTCTTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG  
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAACGCTGAAGACCATAACCTTTT  
GGGTCAACTGTTGGTCAAACTATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT  
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG  
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA  
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT  
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTTCGCTGTAAATCCCAACACTTTGGGAGGCCAGGACAGA  
TCACTTGAGGTGAGGAGTTGAGACCCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAAT  
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG  
ACTGCAGTGAGCCGATATCGCACCACAGCGCTCCAGCCTGGTTCGACAGAGTGAGACTCCATCTCAAGAAAAATA  
AAAAATAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC  
AGTCCAATTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTATCTATTA  
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAACAGCAAAT  
TGAGGATTTACTTATCTAGGACTT

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**FIGURE 5313**

MAGLNSLEAVKRKIQALQQQADEADRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ  
KLEEAekaadesERGmKvienRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEAEVS  
ELKCGDLEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA  
QAKEENVGLHQTLDTLNELNCI

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**FIGURE 5314**

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCCTCGGGGAGAGAGTGTAAT  
**TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCCT**  
GTTCCGCTTCTCCGAGGACGCCCTTCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAATTAGGACCAT  
AGAGCTCGATGGCAAGAGAATTAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAC  
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG  
GAACTGGATTTCGAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAGATGATACTCGGGAACAAGTGTGATGT  
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAGCTGGCCCTCGACTATGGAATCAAGTTCATGGAGAC  
CAGCGCGAAGGCCAACATCAATGTGAAAAATGCATTTTCACTCTCGCCAGAGATATCAAAGCAAAAATGGACAA  
AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG  
CTTTTTCCGATGTGTTCTTCTG**TGAGGA**ACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT  
TCTGAGTGAGCCCCCTACTCAGCCGGGGCCCTCCCACCTCCAACGCCCGCCACGCCCGGGCCACCGGGCCAC  
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTTCACTTTGGAGATGGAATAA  
GTTAAAAATTTGCTATTTTTCTGTAACTCTGCTGAACGGGGCCACCCACACGTTGTATATTAGAGAGAGAGA  
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT  
GCAACACAAAGCTCCACCAGGAGGCTGGTTACGTCCTTACCACGGAAGCGAGGTCCCAGAAGGCCAGCGGTGG  
TTCCAGGAGCAACAGCTCCCAAACCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT  
TGGCGCCCACTTCCACCTCTTCTCTCAGTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA  
ACTGTAAACCAAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAAGCCTGGAGCAG  
CCTCTCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT  
GTGTGCTGCAAGTGACCCCGAAAACAACACAGCCGTCACATGGTCCTCCTGAAGTTGGGGCACCTCCTCTCAG  
CACCAAAATGGCCCCCACTCCTTCGTGCTCCTCCCGTATCTCCAATCGGACGTTCTTTCTAGCTGAGATTTTA  
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTTCCAATGGCAAACCTGGGTGATCGGGAACAA  
GCACGTTGTACCCTTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT  
GGCTTGATTTTCAGCCGTCATCATTGGGTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC  
AGGTCAACCACGCCAGGGGGGTGTCACCAGCCTTTCTTTTTTCTTTCTTTTTTTTTTCTCTCCTTAAGCTG  
CTGTCAATCCAACCATTTGGCATCATCGTTTCTTTTCAATTAAACCAACATATCAGCAATAGTCTGCTCTCCCC  
GGGAATCTCTAACATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAACAAACAATTAAAGCTCATCTTAAA  
GTCCAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5315**

MAKTYDYLFKLLLLIGDSGVGKTCVLFRRFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITT  
AAYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET  
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQG VKITPDQQRSSFFRCVLL

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**FIGURE 5316**

GGTGAGCTGTGCGGGGCGGCGCCCGGCCTTGCTCAACGCCAGCAGTCCCCACCGTCGCTGCCGCCGCCACCGCC  
CTCGGCCGCTGCCGAGGCCTCCTGCAGCCATCATGTCCGCCAGCGCCGTCTACGTGCTGGACCTGAAGGGCAAGG  
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTCAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA  
AGGAGGAGGAGGGGATGCTGTGCCCCATCCTGGCCCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC  
TGTATCTGGTTGCCACATCCAAGAAGAACGCGTGCCTGTGCTGGTCTTTTCTTCTCTATAAGGTGGTGCAGG  
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACTTGTTATCATCTACGAGCTGCTGG  
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGGAAGGCC  
ACAAGCTGGAACAGGGGCCCCGCGGCCACCAGCCACCGTCACCAACGCGGTGTCTGGCGGTCCGAAGGCATCA  
AGTATCGGAAGAATGAGGTGTTCTTGGACGTCATCGAGTCTGTCAACCTCTTGGTCAGCGCCAACGGCAATGTCC  
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCTCTCGGGCATGCCCCGAGCTGCGCCTGGGCCTCA  
ACGACAAGGTCTCTTTGACAACACGGGCGCGGCAAAAGCAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC  
AGTGTGTGCGGCTATCACGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCCGACGGCGAGTTCGAGCTCA  
TGCTCTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTTCGGTGATCGAGAAGCACTCCCACAGCC  
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC  
CCGTGCCCAATGATGCCGACTCACCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG  
AGATCGTGTGGTCCATCAAGTCCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCACTTCGGCCTGCCTAGTG  
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCGATCAGTGTCAAGTTTCGAGATCCCTTACTTCACTACCTCCGGCA  
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA  
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGAGCCAACACCCCGGCTCGGGCTCCTGGTGGCAGC  
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC  
AGGGACTCCTGCCTTACCAGGGCATCTGCTCTGCCGTGACACTCGTCTCAGAAGCCCCCTTTCCAGAAAGAGGC  
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTCCGTGTAGA  
GGTTACAGCCTTTTATGCTGTTGAGCTCCCAAGTACAAAAAGCTTGGCCAACGCTTGCCAGCCAGCCAGCTGCA  
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTTGTTGCCATTTTGTGAA  
CGTTATGGGTTTATGGGTGTTCTTGGAACCTTGCTTTGTGCATTCGTTGCTGTTTGTGTTACCTCACTGTCCCC  
ATGTCCCACCCACGTCTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCTTCTTGTCTTCTTCC  
CGGCAGCGCCGACGCGGGCATTACACGTCGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC  
TGCTCCCTGGACTCGCAGGCCTCGCCTGTGGCGCCTTCCCAGGGCCAGCCTGGGTACGAGATGCTGTCACTCAG  
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTTCCCACTGAGG  
GTCCAGAGAGCGGGGCCACGTGTCACCACGTCTGCGCTTGGTCACCCGTCTCCCCACCCTGTGTGTGTTTATG  
TCATAGTTACATTAAATTCCATTCATTG

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**FIGURE 5317**

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGGGAAGAGAAATGGCTTCTGCAAGGAAAGCC  
AGCCGTCCCATGCGTGATGTTTTTGGTGACITCAGTGATGTTTCCTTGGAAGATTCAACAATGGAAGAAATCAGA  
AACTTCAGATCAGTAGAAATCTTACCAAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACTCTA  
GATGAGAAACACTTACTCCTGAAAGAGAACCCTGTGCTCGGGAGTGGACCCAGGCTTGCCCTCATGTAGACCGCCC  
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCCAGCTGGAAAACCCGGATCATGAATCGG  
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCTGGTCTTCCAAAGAGAGCTGAC  
AGAATCCTCTCTGGGGGTGCACTCGAACTCGCGTCCCAGAACACAGACAAAACCTTCCCAGAATCAAGCCCGTGAA  
CTTCCTGTACCGAAAATAATGCACAGAACGCGAAGGTCTAGTGGTTTCTAAAGAAGAAAACAAGCACCTGTTGAA  
AACATATCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAACCCCCAAACAGAAAGAACCTGCTAGAACAA  
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA  
AACACGAATCAAGGCTTCAGCAGCGCTAACGTACGCGAGGAAGAAGAAAGAAAACCTATTTTCGGTCCCATCTCAA  
CTGAGAGCATTTACTGTACCCAGCGTGGAACTCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC  
CTGGCAGCAGACAGAACCCTTCACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC  
GCCTCCACACGCGCTCAGTTTCCATCACAGGCGCCTTTTCAAACCTCAGTGTCTTTAAAGATGGGGCATGTCAAG  
CTTGCTGCTCTCCCGGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC  
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTGAGTGAAGTCCGATTGGAACAG  
GAAGAGGAAAGTGCTCAGAGACAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC  
CCGAGGCAGGCCAGGCGAGGAGCTGGGCATCACAGGGAAGGCGCCTCTGCAGAGGGGGATGAGAGCGAGGTC  
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCATCTGAA  
GCCCCATGGTGAACACAGTCAGCTCAGCTTATTCGGAGGATTTTGAAAACCTCTCCAAGTCTGACAGCATCTGAG  
CCAACCGCCCATTTCCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA  
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT  
GTGCAGACGCCAGATCCTGCCTTACCTACGAGTGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCCTGCCCTG  
GGAGGCGCCTACGTGGACCCGACACCCATCGCCAATCATGTTATCAGTGAGATGCAATAGAAGCCCTGACCGCT  
TACAGCCCGGCCGTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGCAGCAGTTTATCCAGGCC  
AGCCGGCACCTGCACGCCTCCCTCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCACACCCTGGAGGAAGCC  
AAAGAGTACATTAGGTGCCACAGACCTGCCCCACTGACCATGGAGGATGCCCTGGAGGAGGTGAACAAGGAGCTG  
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCGCAGCTTCCAGAGTTACCAGCG  
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGGCGTCTCTTCTGGGGAGTACG  
ACTTGGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGCGACCTGCTCCGACTTCTGCAGGGAA  
GGGTGCCCAAGGGTCAGCAGCAGCCAGGCGTCTGTTGGGAGGCCACAGGAAGGGGCCTCAGGCACTGCCCTGAGGC  
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGCGACCTTGACCTTGAGTACGAGCC  
TGAAGACTTGGAGGATCTTGAGTTGGAGCGGGAGGAAGAACGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA  
GGGTCCGCTGTGGGGAGAGGCCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCACCCTGGCCCTCA  
GGTTCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACCGTACCAAGTT  
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATCAGGCCTTGTTGAAAAACACCGCCCATAGGCACAGGCT  
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCCACCCATCACAAGCTGTGGACCTTGCCCCCGG  
CCTGTCAGACATCTGCGCTTTTACCTGTTCCTCTTCTCCTGGCCTTTCTCCGCGGGCCGCAATTTTGTCTCG  
GAAGAACTCATAGAGGCCGTTCTGCTCCAGCCTTCACTGTAAGACACGGCATTCCGTGTGTGACCACGTGACAC  
CCACCCACAAGGAAGTCGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC  
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGGTTTCACTGTTTCCACAGGGCTGTCTCTGTCAGCCAGTGGC  
TCCTCTGGTGCCACGCCCTTGCCACCCTGCTGTTCCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAAGTGGGA  
AACAGGAACACTGACTCATGGGTGGACAGGCTGTCAGCCAGCAGGAAGGAGGGGTGACCACTGGGAAGGGTG  
GGCTGAGGGCCCTGTGGCAGCCGGCTGCTTGAGACGTGCCCGCTGCCACACCTTCCCTAACTTCTTCTGATGTG  
TCTCCATTAAACGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5318**

MASARKASRPMRDVFGDFSDVSLEDSTIMEEIRNFQISRNLTKIAPGHSRFLKRNQTLDEKHLLKENPVLGSGPR  
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRIILSGGALELASQNTDKT  
SQNQARELPVTENNAQNAKVSRLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL  
MDSSREKNTNQGFSSANVSEEEERKLFVPSQLRAFTVPSVELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ  
SHVSSDTASHTPSVSITGAFSNSVSLKMGHVKLVSSEPRSEAEVDEPVSEGADDSLDEFINILSLDGLAPAVS  
ENSDLEQEEESAQRQKTAKIFRAEASTGQDAPRQAQARSWASQGKAASAEGDESEVSEHLSASSASAIQQDSTS  
SMQPPSEAPMVNTVSSAYSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSSVKTDLPTAESRKKSGRHVTR  
VLVKDTAVQTPDPAFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL  
TQQFIQASRHLHASLLRSLDADSFHYHTLEEKEYIRCHRPAPLTMEDALEEVNKE

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**FIGURE 5319A**

GGCACGAGGGCAGACGGCGCTGGTGGTCGATCGTGTGGCGCCGGAGGACGTTCCCCGCGGCCGGAGCCATGGAGA  
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTCATCGACAAGCTCGCCAGTTCTGTGGCTCGCAATGGGC  
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCTCGTTTCTTTTCGGAGGCGAATTCT  
ACAGTTACTACAAGTGCAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGGAGCTGGAGC  
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCCGCTGGCCCCCGCCGCGCCATCCCGCCGGCCAGGGCGCGC  
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGAACCTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC  
AGGAGCAAGTGACAGCGGCGCTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG  
ACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA  
ACTGGATGTTAGCAATGCCAAGTCCCCGCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG  
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA  
AGCAGGCCCGGGAGCTGCTGGCCGCCCTGCAGAAAGTCTGTGGTGGCCATCTACTGCACCAGCTTCTTGGCCGTGG  
AGGAAGACAAGCAGCAGAAGATCGCCCGGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTTCGATGACTCCATCA  
TTCAGCAGCTACAGAGCCAGCCCTGGGGCTTGGTCAGTACCAGGCCACCCTCATCAACGAGTACTCCTCAGTGG  
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCTCAAGACGCAGCAGCAGGAGTTTGTACCAGCC  
TGGCCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGCAGATGGAGGCTGAAGTCAAGG  
CCACGCTCCACGCTGCTCCACCCCGGCCACAGCAGCTGCCCTGCCATCCCGCCACCACCCAGCCTGATG  
ACAGCAAGCCTCCCATCCAGATGCCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGTCCAGGATCTTCAGCTG  
CCGGCCCCCGGGGCCCCGGGCCACACGACCAGATCCACCAAACAGCCCCCTTGGTTTGACCAGCTCACCCCG  
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCCTACCCGCACCACCAGGGCGGCCACCCCACTGCC  
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGGTGGAACGGCCAGCGCGACG  
CGCCCTGGAACAACAGCCGACGCCGCTGGAACAGCCAGTTCGAGGGCCCCCTGGAACAGCCAGCAGCAGCAGC  
CGCCCTGGGGCGGGGGCCAGCGCGAGCCACCCTTCCGCATGCAGCGGCCCCCACACTTCCGGGGGCCCTTCCCGC  
CCCACCAGCAGCAGCCCGCAGTTCAACCAGCCTCCGCACCCCACTTCAACCGCTTCCCGCCCCGCTTCATGC  
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCCGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT  
TCCCTGCCGAAATGGGGCCCCCTCACCACCACCTGGCCACCGCATGCCTCATCCTGGCATCAACGAGCAGCCG  
CTTGGGCTGGACCCAGCACCCTGACTTCGGCCCTCCCCCATGGCTTCAACGGGCGAGCCCCACACATGCGGC  
GACAGGGCCCGCCACATCAACCACGATGACCCAGCCTGGTCCCCAATGTGCCCTACTTCGATCTCCCTGCTG  
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTTGGACCCTAAAGACATCCGCTCCCAC  
CCCCATGCCGCCCAGCGAGAGGCTGCTGGCTGCAGTGGAGGCTTCTACAGCCCCCGTCCACGACAGGCCCA  
GGAACAGTGAAGGCTGGGAGCAGAACGGCCTCTATGAGTCTTCCGAGCAAAAATGCGGGCCCGGGAGGAAAG  
GCCAGGAGAAGAGGAACAGCGGACCCTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTCTTCTCCTCCGCT  
CCAACCTCAAGATCCTCCAAGTCTTCAGGCTCGTACTCAAGGTCAAGGTGCGGCTCCTGCTCCCGTTCCTACTCCC  
GCTCCAGATCTAGAAGTCGGAGCAGGTGCGGCTCCTCCAGAAGCCGCTCCCGGTCCAGTCGCGGTCCCGGTCCA  
AGTCGTACTCCCAGGAAGAAGACGCCGCTCACGGTCCAGGAGCCCCACCCGCTTCTCTGCTGGTCTGGGT  
CTAATTGCGCGCTCCCATTCCTGACTCAAGGCTCGGAGAAGAGAAACAAAGGCCATCAGATGCTGGTGAAGATGG  
GCTGGAGCGGCTCAGGCGGCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG  
ATAAGTGGGACCACTATAAAGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAACTACCGCAGGAACAAGAGCT  
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGAAGTAGCGGCCATGCCGGAGCCGCGCCGCTGGCCA  
GCGGTGCCGCTGTGGGACCTTCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC  
TCCACTTGTGGAGACCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACCGCGTGTCCATGGCGTG  
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAGGGCCCCAGGCTCGTTTTCTTTA  
TAGCGAAGCAAAAAACACAAGACCTCCGCCCCAGTAAATTCTTCAGCCACGAAGGGATGGATGTGCATCTGCCC  
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC  
ACCCAGCTCCTTCTCAGCTCCCCGACCCACCGGCCCTGACCTGGCTTCCCTCGGCTGTGTAGGGACAAAG  
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAACAGAAACACAAACTTTGACTTGACTTGCGAAGTGAA  
GCAGGGTTTTTACTTTTACTTCTTGGTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG  
ATTCTGAAACCTAATTCTTCGAAGGCGTACTGGCCCTAGTTTCAGTTATTTTAGTTGTATAAGTTGATATTTT  
TTCTGGAATGTAGCCATTGTCTGTATCTGGGAAACAAGATTCTAACAGGAAACCAGCCTAAGACACTTCAGGT

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**FIGURE 5319B**

GAGCGCTGCCTCGGAGTCTGTGCCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGAAGAACCCTGCACCGGCTG  
GCGTGTGCGACGGCCCAGTCCCATCCAGAGCATGGAGCCCAGCCCAGCCAGCGCCTTCCACTCCATCATTTCAT  
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAGCTGGTGGGTGACCGTTGGGAAT  
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCCATTCAATTTGTACAGAAACATTTTTGAAAAATTCTT  
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTGTTCCTAGATTTCCTGTA  
GCTGTGAATTGTTAAAATGTATGATTCAAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTTCAT  
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5320**

MTMEKQKDNPKFSFLFGGEFYSYKCKLALQEQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE  
LIQQSQWNLQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS  
NAKSPPHCELMAGHLRN RITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVP IYCTSF LAVEEDKQ  
QKIARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTS LAQQQ  
QQQQQQQQQLQMPQMEAEVKATPPPPAPPPAPAPAPAIPPTTQPDDSKPPIQMPGSSEYEAPGGVQDPAAAGPRG  
PGPHDQIPPNKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPWNN SHEGMWGEQRGDPGWNGQRDAPWNN  
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRP PHFRGPFPPHQHPQFNQPPHPHNFNRPFRFMQDDFP  
PRHPFERPPYPHRFDYPQGDFFAEMGPPHHHPGHRMPHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRRQGPP  
HINHDDPSLVPNPYFDLPAGLMAPLVKLEDHEYKPLDPKDIRLPPMPPSERLLAAVEAFYSPPSHDRPRNSEG  
WEQNGLYEFFRAKMRARRRKQEKRN SGPSRSRSKSRGRSSSRNSRSKSSGSYSRSRSRSCSRYSRSRSR  
SRSRSRSSRSRSRSQSRSRKSYSPGRRRRSRSRSTPPSSAGLGSNSAPPID SRLGEENKGHQLVKMGWSGS  
GGLGAKEQGIQDPIKGGDVRDKWDQYKGVGVALDDPYENYRRNKSYSF IARMKARDECK

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**FIGURE 5321**

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCTGCGCGCCTGGCGCGTGCCCCCGCGCCGCCCGT  
CTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCGGGCCGCTGCTGCGCGCGCCTTCTACCCGCGCTACGTGCT  
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTCAGCGCACGTGAGCATCTGGAAGGTGCCCGTGTCTATGC  
ACACACCGTCAAGGCCACCATGCCCATCTGGGTGGTCTCTCTGTCGCCGATCATTATGAAGGAGAAGCAGAGCAC  
CAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCTGCTGGCCACCGTCACCGAGTTGTCTTTTGACAT  
GTGGGGACTCGTCAGCGCCCTCGCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAGGTCTTGCG  
AGATTACGGATCCACCATCTCCGGCTGCTCAACATCTGGGCTGCCACGCCGTCTTCTTTATGATCCCCACCTG  
GGTCTGGTGGACCTCTCGGCTTTCTGGTCAGCAGCGACTTGACCTACGTCTACCAGTGGCCCTGGACGCTCCT  
GCTCCTGGCTGTGAGCGGCTCTGTAACTTTGCCAGAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC  
CCTGAGCTACTCGGTGCCAATGCCACCAAAAGAATCATGGTCATCACGGTGTCCCTGATCATGTGCGCAACCC  
AGTCACCAGCACCAACGTCTGGGCATGATGACCGCCATCCTGGGGTCTTCTCTATAACAAGACCAAGTACGA  
TGCAAACCAGCAAGCCAGGAAGCACCTCCTCCCCGTACCACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG  
CCCCTGGAGAAGCCCCACAACGGCCTCCTCTCCCCCAGCAGGGGACTATCAGTACGGCCGCAACAACATCTT  
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAAACTCGTACAGTTTGAACCGCTATGATGTGAGAGTCC  
AAAGGACAGGACCAGACTGTTGGTGACTCCTTCCCCGGCCCCACAGCAGTATCAGAACTTCTGACAATCAGTG  
AATGTACAACCCAGCCGAGGGGACGGTGCATAACTCTCCATCAGAAGCCCTGGGGTTCTGGCCCCCGTGAGCC  
GCAGGAGGATGCGTTGCCTGCAGTGCAGACGGCCGTGAGCTCTGGGCAAACCTAAACAGAGACCAGTGTCTCATG  
CTCTTTCTTCTGGAGTCTGTCTATCTGAGGGCGGTGCCCTGCGGAGATCTTGGCCACGTTGTACCTTTCCATGT  
GGAATTATCCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTACAGGACCTGTGTGAAA  
AGCTGGGGTCACTGTGGCTGTAGACCATGAATGGCAGTGGGGGTGTCCAGGGCGGTGCTTGAGAACGTGAGACT  
GGCTAGTTTAAATCCCTGGCCAGATACGCATAGGACCAACAGGGTCACCAAGCAGACAGGGAGCCCGCGAGAAT  
CATTCAAAACATCCCCAGCCACAGAGATGGATCCAGTTTCCCTGGTCATCCCCCTTAGCAGTTCACAAGTTCCTGGC  
AAATGTTCCAAAGCAAAAAGCGATTGCAATTAGCATCCAGTTCCTGCAGCCTGGTGTCTGTCCCTGCACGTGAGG  
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCCTCCTTCCCTCACCAGAGCA  
GGGCGCTTCTCTGGGGTGGTGAGAAGGATCTTCAGAAATCGTGTTCAGTATTTCAAGCTCTATTTCTGTGGCA  
CATGTCTTTTGAGAGGCATCTTACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC  
GGAGGATCTTGCATTTTTCTAGGGAATATTTTGTAGTTGTGTGTGTGTGTTTTGCCTTGGTCCCCATTATGGGA  
TGCATTAGGACTGGCCTATGCATCGAAAATCTTTTGTGTTGTAAACGTTTAAAAACAAAGTTCCCGGCCAGGCA  
CAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTGAGGAGTTTCGAGACC  
AGCCTGGCCAAACATAGTGAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT  
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAAGTTGTGGTGAGCCGAGAT  
TGTGCACTCCAGCCTGGGTAAACAGAGCGAGACTCCATCTCAAAAAAACAACAAACAAAGTTCCCACTGGT  
GATGCCTGTCTGACACGTTTTGGTATTTAGTAGGAAATGAAGTGTTTCGAAGCTTCGAGAGAAGCTTCAAAATTG  
TCACAATTGCTGAAAACAGAAATGAATCGTGAACATTATCTCAATATTTGTATAATAGACAAGACCACAGTGT  
TGGTTCCTGACCTGTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAAGGGGACGAGGAGCGAACAC  
TGCACTAAGATTTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC  
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCCTGGCCAAACATGGTGA  
AACCCCATCTCTACTAAAACAAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT  
GAGGCAGGAGAATCACTTGAGCCCAGGAGGTGGAGGTTTACGCGAGCTGAGATCACACCACTGCCTCCAGCCTT  
GGTGACAGAGTGAGACTCTGTCTC



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**FIGURE 5322**

MPIWVLLSRIIMKEKQSTKVYLSLIPIIISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVLRDSRIHH  
LRLLNILGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLLLLAVSGFCNFAQNVIAFSILNLVSPLSYSVA  
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKERHRSPLEKPH  
NGLLFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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**FIGURE 5323**

GGCACGAGGGGAACATCTTCATGATGTTCTGCATGATTGTGCTGTTTCGGCTCTTGAATCCCAGCGATGAAACCAG  
GAACTCACTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCTGATGACTTCAAGAATGTTTTTGACCAGAAAA  
CCGACAACCTTCCCAGAAAGTCCAAGCTCGTGGTGGGTGGAAAAGTGTTCCGCCGAGGTGTGCATGGTTTCCCAGC  
CACGTCCCTGTTTTCAAAGATAGTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTCAGGAG  
CGTTTATGTAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAGAAAAATCATTTCTATCCAGAGATCTGA  
GCAGAAGGATTGGCTTGTTAGTTTAAACACAGCCGTATTTTTGGACATTCAGTGTTACTTGCTGAGTCTGACAGCC  
TCTGGGCCCGGCCAGGGGCCCTGTTAACAAACTGCTTTTACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG  
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGCCACCTGTAAACAGAGACACCAGCCTTCCTGTATAGACACTAA  
ATTGTTAGCAAGAGTGTTGAGCTAGTTCCTGGTGAAGTGTTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA  
TTAAGGGAACTTTCTCTGCCTTGACCCCTTTGTTAAATAAAATGACTTTGGGAGCCATTTCATTGTACAGTTGC  
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAAACCTTGGGTTTCTGAGTCTGCTTTTT  
GAGTAGGTGATTTTGGAGTTGAAAAACCAGGGGCCCTTCATCTAGGAAATACAGCATTTTCCAGAAGCTTCTTTGA  
AAGGGAATCCTGGTTTTTGTGCCAAAATGAAACGCCCGGGGTTGGCGCTGAATCCCACAACCTGTGTGATTTGCTT  
GTTGAGTTTTTGTGCTGCTGTTTTTTTTGTTTGTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT  
TTGAAATCCTGACTTGGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC  
TTGAAATAAACCTCATTTCTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5324**

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGKVF AEVCMVSQPRPCFQR

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## FIGURE 5325A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCTACCACCTGCACATCTACCCCCAGCTG  
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCATCAAGGAC  
GCCATTGCCAGCCTGCGGCTGGACGGCACCAGTGTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGAGGAA  
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGCACAGGACGAGCACCTT  
CAGGAGGATGGCTACTACTTCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG  
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGCCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC  
CTGTGTAACTCCCCGAGCTAACCGAGGGCAACCTCCTGAAGAACCTCAAGCACCCTTCTGCAACAAAAGATC  
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTCCTGCCCATCTACAACCCCAAGTACGTG  
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACC  
ATGCTCAGGAAGCGCGTGAACCACTGTCATCGTGATCTCGGGTGAGAGCGGCTCCGCAAGACCCAGAGCACCAAC  
TTCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGCGTCGAGAGGACCATCTGGGTGCT  
GGCCCTGTGCTGGAGGCTTTTGAAATGCCAAGACAGCCCACAACAACAACTCCAGCCGGTTTGGGAAATTCATC  
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTGCTCGAGAAATATCTGCTTGAAGTCTCGCCTG  
GTGTCTCAGGAGAAGGATGAGAGGAACCTACATGTGTTTTATTATTGTTACTTGGGGTCAGCGAGGAAGAGCGC  
CAAGAATTCAGCTCAAGCAGCCTGAAGATTATTCTACCTCAACCAGCATAACTGAAGATTGAAGATGGGGAG  
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCTCCCCGCCACCAAGAAGCAG  
ATTTTTGCCGTCCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA  
GGGTGGAGGTGCGGGCCACCCGAGGTGCTGGACACCTGTGCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG  
GAGGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGACAAGCTTATCTTCCCTACAGCCTCAGCGAGGCCATC  
ACTGCCCGCGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTGACTGGATTGTGCTGCGGATCAACCACGCA  
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCTGCTCATTGGGGTCTTGGACATCTTCGGGTTTGA  
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG  
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCAGTGGCACAACATCGGCTACACAGACAAT  
GTGGGCTGCATCCATCTCATCAGCAAGAAACCCAGGGCCTCTTCTACCTGCTGGACGAGGAGCAACTTCCCC  
CACGCCACGAGCCAGACCCTGTGCGCAAGTTCAACAGCAACATGAGGACAATAAGTACTTCTTGGGCACCCCG  
GTCATGGAGCCAGCTTTCATCATCCAGCACTTCGCGAGGAAGGTGAAATATCAGATCAAGGACTTCCGGGAGAAG  
AACATGGACTACATGCGGCCAGACATCGTGGCCCTGCTGCGGGGCGAGTACAGCTCCTACGTGCGGGAGCTCATC  
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCGGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGTTCGGGAG  
GCCGAGCCCTGCGGGCCGAGAGGGCCGAAAAGGTGCAAGGTATGAGCAGCCCTGGTGCCAAAGTCACCCAGAA  
GAGCTGCCAAGAGGAGCCAGCACCCCTTCGGAACAACTTTACCGCGATTGTCATAACCAATGATCAAGAGCATC  
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC  
TTCATCCTGAAAGTAAAGGTATCAAACAAAAGCAGATCATTCAAAGAACCTACTGGACTCCAAGTCCCTGAAA  
CTCATCATCAGCATGACTCTGCACGACCGCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA  
AGCATCAGCGCCAGTTCCAGACATCCCTTAACAAGCTCTTGGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATC  
CGCTGCATCCGTTCCAATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCTGCAGCAGCTGCGCTAC  
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTGAGGTACAGCGCAAGTACAGTTCAGGATTTACCGGAG  
CAGTTCAGGTGCTCCTGCCCCAAGGATGCCCAGCCCTGCAGGGAGGTGATCTCCACCTCCTGGAGAAAATGAAG  
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG  
ACGCTGCACCGGGAGGTGGTGCGGAAAATCCTGCTGCTGCAGAGCTGGTCCGGATGGTGGTGGAGCGTCCGGC  
TTCTGTCAGATGAAGCGGGCCGCGTCAACATCCAGGCCTGCTGGCGGTCTACCGGGTCCGGAGGGCGCTGGAG  
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTTACCGGCACCGAAA  
CAGAGCATATCCGCTGCAGAGCCTGTGTGCGGGGACCTGCAGCGCAAGAGCTTCAGCCAGATGATCTCGGAG  
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT  
CAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCGGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG  
CCTGAGGTGCAGCAAGTGACAGGTCCCCCTAGAGCACTCTCACCTGAGAAGGAGGCCCAAGCCAGAGAAAG  
ACTCTCCACCCAGAAAACCGTGGCGGCTGAAAGTACGAGAAAGTCCCAGCAGCGGAGAGCGTGAGTCG  
CGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC  
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCCTGGAAGACAAAAGGAGAGCAGAGAAGAT

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## FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAGCAGCCCACAGAGCAACCCCAGGCCATG  
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG  
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCCACCGGCCCCCTGGCAGCGCCCCGAGACCCCCGAGGACAAG  
AGCAAACCATGTGGCAGCCCAAGGGTTCAGGAAAAGCCGACAGCCCCGGAGGCTCCACGCAGATCCAGCGGTAC  
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAAGTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGAGCCCTAGT  
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCAGCCCCACAGAGGAG  
AGGGCGACCTCCTTCTCCACGAGCGAGCTCTCCAAGTCTCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA  
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGTGTCCAGAAGAAGAAGCCAGGCAGCGCATCCTCCCTCCCA  
GACGCAGGGCTGTCCCCGGGCTCTCAGGTGCACTCTAAATCCACGTTTAAGAGGCTTTTCTGCATAAAACCAAG  
GATAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGCTGGAAGCCACC  
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA  
CCAGGAGGCAAAGGGAAGAAGAACCAGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGGAATCG  
GTGTTCCGCCAGATACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCTTGCTCAACAAGATAAATGACCTC  
CGTTCACAGAAGACGCCATTGAGAGCTTGTATTATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAACGATG  
TACTCTGTCCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACCAGATCGTCTGTCAGCAAC  
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGCTCCTCAACCTCTTCCAGTCACTGCTAGATGAGTTCACC  
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT  
GCTGTCCAGGAGCACAACGGGCACGTGTTCCGCCAGTACCAGGTTAGCATCCCGCAGTCTGCGAGCAGTGCCTC  
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC  
AAGATTCAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG  
TGCGTAGACAGCCTGACCAGCGACAAGGCCCTCGGTGCCCATCGTGTGGAGAAGCTCCTGGAACACGTGGAGATG  
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCGCACTCGGGAGCTCCGGCAGGCGCTG  
CAGACAGACCCCCGACGAGTCAAGCTGGAGAACTTCCCCATCCACGCCATCACAGGGGTGCTGAAGCAGTGGCTG  
CGGGAGCTGCCCGAGCCCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCGAGCCGTCGAGCTGCCGGAGAAG  
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTTGGAGCACCTTCAGAAGCCAACCACAACCTCCCTGGAGAGACTC  
ATCTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTGGGGCGCTGGCCATTATCTTC  
GCACCTGCTCCTGCGCTGCCCTGACAACTCGGACCCGCTGACCAGCATGAAGGACGTCTCAAGATCACCACG  
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGGAGGAGATCAGCCAACCTGGAGGCT  
GCAGAGAGTATCGCCTTCCGACAGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAAGTGGGGTTTTTCG  
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG  
GAGGAGGAGGACGCCGGCGCGATGAGGACCGGAAAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAG  
GAGAAGGAGGACATCACTACCGGTGCCGGAGCTGGACCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAG  
ACGTCGGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGGCTCGGAAGGGCCCCCTGCGCCTGCT  
CTCCCTTGCCCCGGCGCGCCACCCGAGCCCCCTCCCCACCGTGGCCGCCCCCTCCACGACGAAGGCCGTGCTCC  
TTCGTAACGGTCAGAGTGAAGACCCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCACAGGC  
CTGCCCTCCACCTGCTCGCTGGGCACCGGGTGCCGGGAGGCGGCTGCCCCAGTGGGGCGCCGGGAGCCACCT  
GCCCCCGCCCGGACAGATACATTCCGTGTACATACGCCCCGGGCGAGACCTGCCAGTGCAGGGCGCCCTGGAG  
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCAACGTACTGCCTGCCCCC  
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAGTCTGCATGTCCGAGGACGGCCCTGCACTGGAG  
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTCGGCCCTCAGAGAAGGATCCAGAATCAAAGCTCAAGAGTGACGTG  
AGGTGGGCACCGCCCCAAGTGCAGAGTCAAGGCAGGAGAGGCGGGCTGGAGCCAGGCCCCCTCGCACGCAGCC  
CCCAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCACTCCCCCTTTTTG  
TACGTTAACTGTTTCTTTGTACGTGGTTTACGTAACTTTAACTGTAACAGCCTTAATGGAAGACCAAAATGTT  
TTTTATATGTGTATGTACAAAGTTTTCTATTAAAGCTGCCCGTCTCCCTTATAACCTGGAGCTGAGCTGTGAG  
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGTTGGCTTGGGTGGCCAATGGGCTGGG  
ACCCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCGTGCTCTCTGACACATGTCTCCGGGGGCGAGCCA  
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG  
AGTCAGGGGCACCATGGACCTCACGTGCCAGGGAGACTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

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**FIGURE 5325C**

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA  
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC  
CTCTCTCAGGCTTGGCCCACTCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGCCCCCGCACA  
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

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**FIGURE 5326**

CCTGATCAGCGGGGCCGGGGCGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG  
CTGATTAGAGGAGGTTCAAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGAAGTGGCAGAGCCCAGCAGC  
CCCCTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCGCACTCGCTCCAATCCTGAAGGG  
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAGCCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT  
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCCGCCAGCCCCCTGAGGTCCAA  
ATTCGGACACCAAGGGTCAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCACTGCCA  
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTTCGTGCGG  
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCACTGGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC  
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG  
GAAGGACTTTTCAGCCTCATCCAGCAGAAACTGAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCCGCCA  
TATGTGGTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG  
AAAATGTTCCAGTGCCCATATTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG  
ATGAGTTGGAAGATATGTTTGCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC  
TGGCTGGGCCAGCCCTGGAGTTGCACAACCTGCATGGCGAAACTGTTGGCCCACCCCTGCAGCGGCCTTGCCAGA  
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG  
TACATCTGCACCTTCTTGIGCAAGGAAGTCCTTGGCCTAAAGCCTTGTTTCTCAAACCTGGGTTTCTTGGGACCTC  
CGGGGTGGGGGGTTCCAGGAGGCACGTAGGGTACCTTGCAAGGTCTTAGGAGGGAAACCCAGGATTCCAGGAGG  
GATCCAGGAACGTGGGCACCCATTTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTATGGATAATTT  
TTGTTCTCCCTGTGTGATTTTGGCATCAAATAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 5327**

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEGEAASADDGSLNTSGAGPKSWQV  
PPPAPEVQIRTPRVNCPEKVIIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN  
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQKTELPTENVQTIPPPYVVRTILVYSRPPCQPQ  
FSLTEPMKKMFQCPYFFFDVVYIHNGTEEEKEEEMSWKICLPSWAAWIPRVPATSMRWHWLGQPWSCTTAWRNCWP  
TPCSGLARAMLPTACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWWPVDLRGGGVPGGT



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**FIGURE 5328**

GTGGAATTCATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT  
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG  
GCCAACAGCGAGGCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTGCAATGTCACCCATCTCCTGCAACAA  
GAGCTGACCGAGGCCAGAAGGGCTTTCAGGATGTGGAGGCCAGGCCGCCACCTGCAACCACACTGTGATGGCC  
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA  
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGA  
ATCGCGGACAAGAAGTACTACCCAGCTCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG  
CTGGGCCTCAGCGCTCTGCTGCAGTTGAGATCCAGGAAGCTGGCACATCTTGAAGGTCCGTCTGCTCGGCTTT  
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG  
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT  
TGACCCAGGGCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCTGAGATTG  
GGCATGGGGTGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTCGGGGGGGGGTGCTTTTTTC  
TGGGGTCTTTGAGCTCCAAAAATAAACACTTCCTTTGAGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAA

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**FIGURE 5329**

MASTSYDYCRVPMEDGDKRCKLLLGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT  
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGEITTLNHLQDASAEVERLRRENQVLSVRIAD  
KKYYPSSQDSSSAAPQLLIVLLGLSALLQ

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**FIGURE 5330**

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC  
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC  
TTCCGGGCAATCTCCGCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTCGGTCGCGAGCGCTGCCGTGCG  
GAGGCGCTCCGAGGTTGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACC  
CGGGACAGACTCGGCGCGCTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCGCGGGGTTTCAGCGC  
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG  
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG  
CCCCCTGCCGCTGGGCTTCTCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT  
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC  
AGTGCCTGGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCCGAGGCC  
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG  
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA  
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG  
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA  
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCGCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCG  
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC  
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA  
GGAGGGGGCGGGTCGAGGCTGCGTGGTGATGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC  
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCTCTGGCAA  
TAAACACTACCCGGTTCTCGCC

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**FIGURE 5331**

GCTTCCTCCTCCCCGCCGCCGCCCTCGCCATGGCCGCGCCGCCCGGGCCTCATCTCGGTGTTCTCGAGTTCCC  
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCAGCGCGCAGCATGCTGCCTGGCAGGGGCCCCGCCCGTT  
TCGCGCTCGGCCTGTGCGGCGGGAGCCTCGTCTCGATGCTAGCCGCGAGCTACCCGCCCGCTCGCCCCTGCCG  
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA  
CGTACGGCCTCTACCGGGTGAGAGCTACGGGGCGCCGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA  
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCCACTGTCTGCACCTCGGGTACGGGGGCCA  
CTGGGTATCATGCCAAGAGGGCCGTGCCCACTGCCTGCACCTCGGCTACGTGGGTGCTGGGGGTATGCCAAGA  
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGCCACTGGGGGTATGCCGAGATGGTCACGCCCACTGCCTG  
CACCTCGACTACGGGGGCCGCTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCTACAGTGGGT  
CCCCGAGGACCTCACTGCGCCCTCTGCCTTTATCTAGGCAGGGCTAGAAATGGTCTACTTGCAGTCCGTCTTCT  
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCTGGAAGGGAATCCGAGTGGCCCATGTCAA  
CGATGCCCATAACTCAGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCTG  
ATCTCTAACCCAGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTT  
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTAAAGACAGGGTAAGTGGGCTT  
GGAGGAGCCTTGGCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT  
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT  
TTGTGGGTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACCCAGCC  
TATGAGATGTTACTCATTTTACAGATGGAGAACTGAGGCCAGAAGAGGTGAGCTTACCTGCCCAAGGCATCT  
AGTGACCAGAGGGGCAGCCAGGCTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC  
TTCCTGTGTGTGTTTTCCAAGAGCATCATTAAAAAGTTTTGGCCGGGTGCGGTGGCTCACGCGTGTAAATCCAGC  
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTGAGGATTTGAGACCAGCCTGGCCAACATGGCAAACTC  
TGCTCTACTA

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**FIGURE 5332**

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC  
GGGAGCCCGGGGCTCCTCACCTACGTCTCTGGAGGAGCTCGAAAGAGGCATCCGGTCTTGGGATGTCGATCCTGGC  
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC  
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCTCTCTGAACCCATCAGACAAGTCCCTGTAT  
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG  
ACGGGGGAGCTGCTGTACAGACAGGGGGCTTCTCGCTCACCCTTCTCCAGGTCTGAAGGACAGAGAGATC  
CGGGACATCTGGCCACCACGCCCCACCTGTGCAGCGGCCATACTACCATCACCTGCCCCACCTTCGGTGAC  
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGGCTGAACCCCCCGGCG  
CAGCTGCCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC  
GAGCTGCTGGAGCCCCGACCTCCGGGGCTTCTCAGGTGGGCCGGCCCTGCTGCTACATCTTCCCTGGAGGC  
CTCGGGGATGCCGCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT  
TTCTGGAAGCTGGTGGCGCACCTGGACCGCTGGATGCCGTGCTGGTGGTACCACCTGGCGCCGACAGCCTCCCC  
GGCCTCAACAGCCTGTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC  
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCCTGCGAGGCCGCGCTGCGGGCTGGCG  
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCTGGCGCAGCTGGGCATCACGCCTCTGCCACTCAGCCGC  
GGCCCCGTGCCAGCCAAACCCACCGTGCTTTCGAGAAGATGGGCGTGGGCCGGCTGGACATGTATGTGCTGCAC  
CCGCCCTCCGCCGGCGCCGAGCGCACGCTGCCTCTGTGTGCGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC  
GAGAAGGTGGTGCCTGTCTTCCCCGGTTCACCCCGCCCGCTGCCTCTCGACGGCCTGGTCCGCCTGCAG  
CACTTGAGTTCTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCGGGGCGAGCCGAGAGCAAAGAG  
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCTGGCCACCCACCTAGACCTGGCCAGGAGCGCCCT  
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCAAGACCCCCCGGAG  
TTGAGGAAAGACCCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGGAGGTGCGCCGGGCGAGCCTCTTCTGTGCC  
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAAGCCCCGCAAGCGCCAGCAGTCCCACTCTGGCTTCCCG  
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCAGTGCAGCCTGCGGC  
TCTCCGGCCTCCAGCTGGTGGCCACGCCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG  
GAGCTGCCCTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTTCCCCTGAGTCCACCGGAGCCCCGCAGAG  
GGCAGCGAGCGGCTGTCTGCTGAGCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCCTACCCACAGTGACCACA  
CCCACGGTGACCACGCCCTCACTACCCGCAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTCTG  
GTGTCTTTGAGCAGGTGTGCGCCATCCGCCCCACCAAGTGGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC  
CGGGCGCGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCTGGTGTACCTGTGAATTTGAGCATCGCAAG  
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGCAGCTCGAATGACAGCAGTGGCCGGTTCACAGGAACGGGCA  
GGTGGGCTGGGGCCGAGGAGACGCCACCCACATCGGTGAGGAGTCCCTGCCACCCCTGTCTGACTCGGATCC  
GTGCCCCGTGGCCCCGGTGGCGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCCTTG  
CCTGACCCCTCAAGGTCCCCCACCCTGCTGACCCATCCAGCATCTGCATGGTGGACCCGAGATGCTGCC  
CCCCAAGACAGCAGCGCAAACGGAGAACGTGAGCCGACCCGGAAGCCCCCTGGCCCGCCCCAACTCACGCGCTGC  
CGCCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGCTGGTGGGGACCGTGCCAGCCGACCACT  
CAGTGCCCGGAGTGAAGCCAGTGAGAAGGGAGGCCGGGCACCCCTGTCCAGAAAGTCTCAACCCCAAGACTGC  
CACTCGAGGCCCCGTGGGGTTCAGCCAGCAGCGGCCCGGGGTGTCAGCCACCCACCCAAGTCCCCGGTCTACCT  
GGACCTGGCCTACCTGCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCAGCGCGTGCAGCGCCT  
CTGCTACGTATCAGTGGCCAGGACAGCGCAAGGAGGAAGGCATGCGGGCCGTCTGGACCGCTACTGGCCAG  
CAAGCAGCATTTGGGACCGTGACCTGCAGGTGACCCTGATCCCCACTTTCGACTCGGTGGCCATGCATACGTGGTA  
CGCAGAGACGCACGCCCCGACAGGCGCTGGGCATCACGGTGTGGGCAGCAACAGCATGGTGTCCATGCAGGA  
TGACGCCTTCCCGGCTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCCGCTG  
TCCCTAGATTACGCCACATCAGAAATAAAGTGTGACTACACTTG

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**FIGURE 5333**

MAVAGSGAAAAPSSILLVVGSEFGSPGLTTYVLEELERGI RSWDVDPGVCNLDEQLKVFVSRHSATFSSIVKGQ  
RSLHHRGDNLETILVLLNPSDKSLYDELRLNLLDPASHKLLVLAGLCLEETGELLQTGGFSPHHFLQVLKDREIR  
DILATTPFPVQPPILTIITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSGLCEFLLEYVAESLEPPSPFE  
LLEPPTSGGFLRLGRPCCYIFPGGLGDAAFFAVNGFTVLVNGGSNPKSSFVKLVRLDRVDAVLVTHPGADSLPG  
LNSLLRRKLAERSEVAAGGGSWDDRLRLISPNLGVVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG  
PVPKPTVLFEKMGVGRIDMYVLHPPSAGAERTLASVCALLVWHPAGPGKVVRLVFPGCTPPACLLDGLVRLQH  
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKEKEAKTPREL  
RKDPKPSVSRTQPREVRRRAASSVPNLKKTNAQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRCEASPPSAACGS  
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPTSPESHRSAPGSERLSLSPLRGGEAGPDASPTVTTP  
TVTTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVLCLVSPCEFEHRKA  
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTSSESLEPTLSDSDPVPLAPGAADSDEDETEGFGVPRHDPLP  
DPLKVPFPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNQGACWWGPCQPTTQ  
CPE

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**FIGURE 5334**

CTTTTGC GGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG  
GTCGCTGCCTGCCCACCCCAAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCTG  
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT  
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG  
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG  
GTGCCCCGCACCGCGCCCGAGCCCACTCCATTTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC  
GGCCGGCTGTCAAGCAGTTCACGACTCCAAGATCAAGTTCCTGCCCCACCGGGTCCTGCGCCGTCAGCACA  
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGTGTGCCCCAAATAA  
ACTCAGGAACGCCCCGGT

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**FIGURE 5335**

MKASGTLREYKVVGRCLPTPKCHTPPLYRMRI FAPNHVVAKS RFWYFVS QLKMMKKSSGEIVYCGQVFEKSPLRV  
KNFGIWLRYDSRSGTHNMYREYDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRRPAVKQFHDSKI  
KFPLPHRVLRRQHKPRETTKRPNTEF



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**FIGURE 5336**

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCCC  
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG  
ACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGGCGCCTCGACCAGCTGGAAC  
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA  
CGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA  
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCTGCTGGAGGAGGGCA  
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG  
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA  
TGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG  
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTACGAC  
TCTGCACGCCCTTAGGCCAGGTGAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC  
CATGCTCTTATCACCAGCCACCCGTCTCCCGCCAGAGGTCCCTGCCCCGAGTGACACCCCATCCCCTCCCATC  
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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**FIGURE 5337**

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA  
TTACTTAACCTTTCTGGGCTCTGCCACCTCATCTGTAAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA  
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA  
CATTTGGGATATACTTATACTAAAAAAATTATTCAATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTCATAT  
GTTTGAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTCAACCTGTCGGCGCGGCTCTGGTGCAGTGGCGGC  
GGCTCCTGTTCTGCCGAGCTCTCTCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCCGCCATGGCTTT  
ACTTACTGCGGCGCGGCTCTTGGGAACCAAGAAATGCATCTTGTCTTGTCTTGCAGCCCAGCATGCCAGTGC  
TTCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA  
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT  
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA  
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT  
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCAC  
CATGCTGGACAACCTTCCACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA  
AAGTAACCTTTGCCAAGCATATGCACGGGGTATCAGCCGAACCAAGTACTGGGAGTTGATTTATGAAGACTCTG  
TGGATCTAATCACAAAGCTACCTTGTGTGCGCAGGAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG  
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTACCAACATGTTAGGCTATACTGATCATCAGTTCCCTG  
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACAGCCACTTGG  
TGGCAGTGGCCTTTTACAGCCCTTACCTGTCTTTGCAGCAGCCATGAACGGGCTGGCAGGGCTCTCCATGGAC  
TGGCAAATCAGGAAGTGTCTGTCTGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTGATGAGAAGT  
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA  
CTGATCCACGATATACCTGTGACGAGAGTGTGCTCTGAAACACCTGCCAATGACCCCATGTTAAGTTGGTTG  
CTCAGCTATGCAAGATTGTGCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG  
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCCGTGTTGGGGTGTAC  
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCAAGTCCATGA  
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGGAGTGGGGGAAAGTGACTACCAGA  
AAGTGAGGAAGCCTAAATAAAAAGTATACTTTTGTTCAGGGGGCCTTTAAAGACTTAAGATTAAATTATATCTG  
AGGCACTGATAATATGTTGAGGTTAAATATAAATTAAGACTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA  
ATCAGCTCCTTTCCCTGCTGGTATGAGTTGCCCATCACAGGCATGGTCTGGAGGATGACCAGGACTAATGCA  
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC  
GGTTGCAGAGAATCTGCAGTCACCTCGGAGCTTTAGCTTCTCTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG  
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCTTGGCCTTCCCATGCA  
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTAACTATCCAATTAAGGT  
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTGATTTTTTTTTTAACTATCCAATTAAGGT  
CTGGGAGTGTCTGTTTCCATTACTTTAATACTACCCCCCTCCAGACTTCTACACCTGTTTACCTCAGGC  
TGAGGATGTTCTGGACCTCCCCCTCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG  
TTTTATCAGTGCTTAATGTGAACCTAAGTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC  
CCCCACCAACCCCACTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT  
CAGAGTCTGTCTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATCAAGATTGGACATGGTCTCCTCT  
GATTATCAGGTAAGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCTGCCCTCAAGAAATTGCC  
TCCTTATTTATCAACATCTTTTTCTCCCTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAGCCCCATT  
TGCACAGGTTTTTCACTCACTCAGAAATGCTCTACTTCTTTTTCTTTGAGAAAGATTGAGATACGCTCCTGCTGTG  
CCCCATCTTTCTCCAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCAGAACACACTGTGTGAGTTGGAC  
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTCTGTATAAAATGCAAAATAAAT  
GTTTTAATTAAC

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**FIGURE 5338A**

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG  
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCCAGTCTCGGATCCC  
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAAACGCTCGGCTGTCTCGGGGGCACCTCTAGTCCACCAGTCC  
CGCGGGATTACGTTTCGGCTACTTCCGAAACACTCGGGTCCCCCTTACCTCAGGCTCCGCCCTCGGCCTCGGTTTC  
ATCCGCCCGGCTCGAATGCGCTCGGGCATTTCGCCCGGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGGGCGGCG  
AGGCGGGGATCCCGCGGCTGCGGCGACGGTGGCCGCGGTGGAGCCACGGGCGGGCTTGGCTTGGTGTGACGGCG  
GCTGCGGGCGGCGGTGGCGGCCGCGACCAGGTGCGGCTCCTCAGCTGGCCGAGCAIGGTGGCAGCCTGCACCCTTG  
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG  
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA  
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAGGGTCATGGAATAATTTGAAGCGAGGCATGAG  
CGGCCCTGTGGTGCCTGTGACTGCTGGAGATAGAGGTCCCAGCACCCCAAGCCAACCCAGCGGACCCTCCCAG  
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG  
CCATGGCGGGCCCTGAGGGCTTCAGTACCGCGCTCTGTACCCGTTCCGCCGGGAGCGGCCGGAGGACCTGGAGC  
TGCTGCCCCGCGACGTGCTGGTAGTGAGCCGGGCGGCCITGCAGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT  
GCCACAGAGCGTGGGCTGGATGCCCGGCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG  
TGGAGTTCCTGGGGCCCGTGGCCCTGGCCCGGCCCGGCCCTCGCCACGGGGCCCCCGCCACTGCCCGCCAGGC  
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCGACTTGCCCGAGCAGTTCTCCCCACCTGATGTGGCTC  
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC  
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT  
AGAGCTTCCTGCTGGCACTGCCCGCGCCGCTCGTGACCCCCGAGGCCTCGGCCGAGGCGCGCCGGGCCCTGCGGG  
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC  
TGCTCCAGCACTGGGCCCGCTGGCCAGCCGCGCCCCGGCCCTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT  
TTGGGCCGCTGCTGCTGCGCGCGCCGCCCGCCGCTCCTCGCCCGGCCAGGGGGCGCTCCCGACGGGAGTGAGC  
CCAGCCCTGACTTCCCGGCGCTGCTGGTGGAGAAGCTGCTTCAGGAACACTTGGAGAGCAGGAGGTGCGCCCC  
CAGCGCTGCCGCTAAACCCCCCAAGGCAAGCGGCCCTCCACAGTCTTGCCCAATGGAGGGAGCCACCCCTCCC  
TGCAGGATGCTGAGTGGTACTTGGGGGACATTTCAAGGGAGGAGGTGAACGAGAAACTCCGGGACACTCCCGATG  
GCACCTTCCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCTCAGGAAGGCGGGAACA  
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCACTATGGCTTCTCAGAGCCACTCACCTTCTGCTCCGTTGTGG  
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCTG  
TGTCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCAGCTTAAGGTCTATC  
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCAGGAGCTGC  
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA  
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAGGATCCTGCTGAAC  
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCCAGG  
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG  
ACAGTACCTCGTGTGGCTCACCCAGAAAGGCGCCCGGCAGAGAAAATCAACGAGTGGCTGGGGATTAAAAATG  
AGACTGAGGACCACTACGCACTCATGGAGGACGAGGACGATCTCCCGCACCACGAGGAACGCACTTGGTACGTGG  
GCAAGATCAACCGCACGCAGGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA  
GCCAGCGGGGCTGTACGCTGCTCCGTGGTAGTGGACGGCGACCAAGCACTGCGTCATCTACCGCACGGCCA  
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCACTACCAGCACGCCT  
CGCTGGTGCAGCAACGACGCGCTCACCGTCACCCTGGCGCACCCAGTGCAGCGCCCGGGGCCCGGCCCGCGC  
CTGCCGCCGCTGAGCACCGAGGACCGGCCCAAGCAGAGCCGCCCTGGGCCCGTCTGCGCCGGAGGCTGCGGC  
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGTCTCTATTCTCCGGCTCTGGCTCTTGTGGGGTTCT  
CTCACCTCTTTCTCTTCCCTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCTCTTTCTCTGTCTTTCTTGG  
CCCCTGTCTCTCTCCATGTTGGGGGTCTTAACCCCCACCCCATATCTACGTGTCTCCGGGCAATTGCCCTCTC  
CATGGCTCTGGTCAACCTGACCCTCTGCCCTGCCACCGCAGGTCCCCGGGGTCCCGGAAGCCCTTCTGGCTG  
CACCTGCCATGTTTACAGAGGGCCCCCTGGGCTGCGCGGCCCGCCAGCTGGGCACCTGATTTTTAAGCCATAGACC  
TGGGGTCAGGGCAGGAAGGAACCTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGGGGCGGGCGGGA

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**FIGURE 5338B**

CCCGCCCCACAGACTCCAACTTCCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC  
CGCTGCGAGAAGTTCACCCACCCCGAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT  
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA  
AAACCCCGCATCTACTAAAATACAAAATTAGCCGGGCGTGGTGGCGGCCGCTGTAATCCCAGCTACTTGGGAG  
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC  
CTGGGTAAACAGAGGGAGACTCCTCCGTCTCAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT  
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT  
GCAGATTCAGGGCTTCTCTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAACCCCTCTTTCCTC  
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG  
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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**FIGURE 5339**

GGACCGCCGCTGGTTAAAGGCGCTTATTTCCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCTGCTGCGAT  
GACCTGTGCGCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGCGGTGCAGGC  
GTCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCACTTAAGTACAAGACAGGCAATCTATACCTGCG  
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCTCTACTATGAAGCACTGTGCGGTGGCTGCCG  
AGCCTTCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA  
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT  
CAACAAGGTGGAGGCTGCGTGTGGATGAACTTGACATGGAGCTAGCCTTCTGACCATTGTCTGCATGGAAGA  
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCCTGCAGCTCTACGCCCCAGGGCTGTGCCAGACACTATCAT  
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC  
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCCCTTGAAGATCAGACCCAGCTCCTTACCCTTGTCTG  
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCTCAACCAGCTCCCTCAGGAGTGTGCTTCAAGTG  
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTCTGATCCAGAC  
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCCACCCCA  
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAACTAGTTTAAT

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**FIGURE 5340**

MTLSPLLLFLPPLLLLLDVPTAAVQASPLQALDFFGNGPVPVNYKTGNLYLRGPLKKSNAPLVNVTLYYEALCGGC  
RAFLIRELFPTWLLVMEILNVTLVPYGNAQEQNVSGRWEFKCQHGECKFNKVEACVLDELDMEFLAFLTIVCME  
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLTLV  
CQLYQGKKPDVCPSSSTSSLRVCFK

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**FIGURE 5341**

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC  
CTCCACCAGCCTCCAGGCCTCTGCCC GCGCCGTCCCTCCGCCTGGAATGCGCCTCCCGCCCCAACCCAACCTG  
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTCÖGGGGCAGGGCGTGTCCGTGTCTGGCTGCTA  
GCACCACCCTGCCCTCAGTCTGTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG  
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCACCTCGTGGAGCTGCTGCT  
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTGCCCCAACCTCATCTGCAACTTTCATTGCC  
TTGGGGACTTTCAGGATTAAGCGATTCTTGGACAAGAAACAAAAGCAAAATCGTCCCATTCCCAGTGGATTGG  
ATGAAAAC TGAAATAAAATCAGGTACAAC TCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT  
TGCACATTGA

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**FIGURE 5342**

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNTLCLLRLPSLRPGPDPSGAGRVRVWLL  
APPCPQSVSGEMAQYLEKPRVCGRMQAKPTHHTALRSGITSLTRGAAAEIKVKMQSPGPSPSVAPTSSATFIA  
LGTFRIKREFLDKKQKQNRPIQWIWMKTGNKIRYNSKRTLEKNQAGSIRNCT



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**FIGURE 5343**

GCAACCTGCACAGCCATGCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTTGCTGGTG  
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCCTCAGAG  
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACAGGCTGCGGGCCAAC  
CAGAGCTGGGAAGATTCTGAACACCGACCTCGTCCCGGCCCTTGCACTCCGGATACTCACGCCAGAAGTGC GGCTG  
GGATCCGGCGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCGAGGCCTCCCGCCTT  
CACCGGGCTCTGTTCCGGCTGTCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC  
AGCCTTGCAAGACCCAGGCGCCGCGCTGCACCTGCGACTGTGCGCGCCGCGCTCGCAGTCGGACCAACTGCTG  
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG  
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGTCTGCACAGGTCCGCGCGTCGCTG  
GAAGACCTGGGCTGGGCCGATTGGGTGCTGTGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG  
AGCCAGTTCCGGGCGGCAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCGACACGGTGCCA  
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAGACCGACACCGGGGTGTCGCTCCAG  
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG  
GAGGACGCGACCTCAGTTGTCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCCAAACA  
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG  
ATGGAAGTGTGTATTTATTTAAACTCTGGTGATAAAAAATAAGCTGTCTGAACTGTT

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**FIGURE 5344**

MPGQELRTVNGSQMLLVLLVLSWLP HGGALSLAEASRASFFGPSELHSEDSRFREL RKRYEDLLTRLRANQSWED  
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLEPEASRLHRA LFRLSPTASRSWDVTRPLRRQLSLARP  
QAPALHLRLSPPPSQSDQLLAESSARPQLELHLRPQAARGRRRARARNGDHCPLGPGRCCRLHTVRASLEDLGW  
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPD TVPAPCCVPASYNPMVLIQKTD TGVS LQTYDDL  
LAKDCHCI

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**FIGURE 5345**

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCCGCTGCCGCCGCCGCCGCCGCGCTCTGGAG  
CTCCCCCGCGCGGACGATGCCCTGCCGTGCCCGCCTGGGGCTCGGGGCGGGTGAGGCCCGGGGCGCGGGGTAGCTAT  
GGCGACGGCAAGCGCGGCCCGCGCGCCGCCCTGACAGGTGTGGGCCCCGGCGGGCGGGCGTGGAGCAGCATGTA  
CGCCAAGGGGGGCAAGGGTTCGGCCGTGCCCTCCGACAGCCAGGCCCGCGGAGAAGTTGGCGCTGTACGTTTATGA  
GTACCTGCTGCACATCGGTGCCAGAAGTCAGCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAACATCAC  
GCTGGGGGAGCCCCCTGGGTTCCTGCACTCCTGGTGGTGCCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG  
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCCTTCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT  
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG  
CTCCAGCCGTCCCCCACAACCCCAACGCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTACCCGCGCTT  
CCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCAGCCCCCTCCT  
CCCTGGCGCCATGGAGCCCTCCCAAGAGCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC  
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCAACCAACTCCCTCGCCGG  
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAAACTCGATCCC  
CTACTCCTCCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC  
TAGCCCTGGAGATCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG  
GGCTAATTTCCCGCTCGGCCCTGGCCCGGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA  
CGGATCCCTGGGCTCGGGCGACATGGACGGGTTGCCGAAGAGTTCCCCGGCGCCGTGGCCGGCCTGAGCAACGC  
CCCGGGCACCCCGCGGGACGACGCGGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCGAGCGAAAGCTA  
CTCGCCAGGGATGACCATGAGCGTGTGATGGGGCGGCAGCCCCGGGCCCTCTCTGCGGGCCTAGGCTTCTGCCCAG  
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTCACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCCAGC  
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTTCTGTATG  
GACCCCTCCTGCCATTTGTATTTTGTCCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCAGGACGTCAGGG  
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTTGGTTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5346**

MYAKGGKGSAPVSDSQAREKLALYVVEYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAP  
DRREACEHSGEAKAFQDYSAAAAPSPVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPAPMMGPHGQPFMSP  
RFPGGPRPTLRMP SQPPAGLPGSQPLLPGAMEPSAPRAQGHPSMGGPMQRVTPFRGMASVGPQSYGGGMRPPPSL  
AGPGLPAMNMGP GVRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTPIMPSPGDSINSENMYTIMNPIGQGA  
GRANFFLGPGPEGPMMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTTPRDDGEMAAAGTFLHPFPSE  
SYSPGMTMSV

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**FIGURE 5347**

CGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG  
GACTCGCTGCTGGCCGCACCCATCATGTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC  
ACTGACATGGACCCCGAGCCGAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCCTCTTCAAGGCGCCACTA  
GTGCCGCCCCGGCAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC  
GTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCAGGGCCAGCCTCAAGCGAGTT  
GGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT  
GATGCCAATGGGCATCTGCAAGAGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG  
GGTCCATACAGAAAAGAACGTCTCTGAGGTCTTGCGTTTTTAATAAAATGGTAAGAGTCTTTCGTGTGGGGCCT  
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCGAGGTGTGACCTCAGCCCCCTCGCCCTGAGCAGG  
GGCGCTGGGCAGAAGCCTAGGCCCGCAGAGAGGCCCGGGCTGCCGCCCCATCACACGCTCATGGTCATCCCTGG  
CGAGTACTGCGGAGAGAGGAGGGGGCAGCGCGCAGGGGCCGAGTTCAGCTCCGGAAGAGGCTGGGACCCGCCCC  
AGGGACAATGGGGGACAGGGCAGGGCTGGGTCTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG  
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGTCCCGGGGTGGGGCGGATGGGATCGGGACGGTGAAATAGGAG  
CGGGAGGTGGTGGGGGTGGGGAGAGGTTGAGGAGAGG

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**FIGURE 5348**

MLGGTNTLV LHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHVLSSLFLFKAPLVPPGSPVVNA  
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVGPVAATYPMLNKKGPVPAATNGCTGDANGHLQEGP  
PKEPFSLGQNTNGRKGPYRKERL

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**FIGURE 5349**

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC  
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCGTGTTTCC  
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGAGGGCCAGCTTCCCTGCCCAGCTCCACCCCTG  
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTGGGGG  
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG  
ATGGCCACGGTGGCTCTGGGTGTGCGGCCTCGAACCGGGTCTCCAGACGTTGGGCCCTCCCTCCCAGCGCGGG  
AGAGGCGGGGAAGGGGCGGGGCGGGGAGGGGCGCGAGCGCTTTTCTCCGGAGGTGCGCGCGCCGAGAGCCCGC  
GCTGTCCGCCGCGCTGCCTGAGTCGACTCTGCGCCGCCCGCGCGATGGAGGCCGCCGCCAGTTCTTCTGTCGA  
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCGTCAAGCCGGA  
GGGTGGCGTTTCTCAAGGTGCACCCACGTCCACGCGCTTCACCTTCCGGACCGCCCGCAGGTGCCCGGCTCGG  
GGTCATGCTTGTGCGCTGGGGCGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT  
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGGACCGTGAGCCT  
GGGCTTGACGCCGAGGGCCAGGAGGTGTTCTGACCTTCAGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT  
CGTGTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCGAAGGTGCTGGACTGGGG  
GCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCCCGGCTTCTGTTTACATCCCCGAATTTCATCGC  
GGCCAACAGAGCGCGCGCGGACAACCTCATCCAGGCTCGCGTGCAGCAGCTGGAGCAGATCCGCAGGGA  
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGTGTGGACGGCGAACACGGAGCGCTTCTG  
TGAGGTGATTCCAGGCCTCAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTGCGC  
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGTGTGCTTCTCAATGGGTCTCCGCGAGAACACCCCTGGT  
GCCCGGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA  
AGTCAAGTCCGTGCTTGTGGACTTCTCATTTGGCTCCGGCTCAAGACCATGTCCATCGTGAGTTACAACCACCT  
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT  
GGACGACATGGTGAGAGCAACCCAGTGCTCTATACGCCCGGCGAAGAGCCTGACCACTGCGTGCTGATCAAGTA  
TGTCCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC  
ACTGGTGCTGCACAACACGTGTGAGGACTCGCTGCTGGCCGACCCATCATGCTGGACCTAGCGCTGCTGACCGA  
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCCGAGCCGAGACCTTCCACCCCGTGTGTCCCTGCT  
CAGCTTCTCTTCAAGGCGCCACTAGTGCCGCGCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG  
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG  
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACC  
CGTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCCACCACCTGAGG  
CCCCGGTCAACAGTTTCTCGGCTCTTCTCCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCCACAAATAA  
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTTCTTGGGGCCTGTGACCTGA

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**FIGURE 5350**

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG  
ACAACCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCTTGCTGCCATGGAGCCCGAGCC  
CGCCCCAGCCCCGGCCCCAGAAGAGTGGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC  
AGGGCCGCCAGGTTTCGAGCCGCCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG  
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCCTCTGGGTGACTGTGACGTTCATCCAGGCCTGGATCTCAG  
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG  
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA  
CCTGGAGATGCTCACGGGGCAGGAGCGCGTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCCACTACCA  
GCGGGCGGACTTCGTCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA  
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGTGAAGTGTCTGAACAACCTGGCGGCCTCGCAGCT  
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC  
TCTCTTCCGCAAGGGCAAGGTGCTGGCCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT  
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG  
CACGGAGACCGCCTTGTACCGGAAAATGCTGGGCAACCCAGCCGGCTGCCTGCTAAGTGGCCCTGGCAAGGGTGC  
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT  
CGCTGCCAGGAACTGACCACTAGGTGGCTGCCACCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC  
TCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTTAGGGGAGCAAGGATTGGGGGT  
CGTGCAGCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCCAGAGGGAGGGGGCCCTCATTCTCTC  
AGACCCAGTTTTCCCCACCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCTCTCAA  
CAGGCCTGGGGGAGCCCTTCCCCTGCCTAGTCCCCGCCTGAGTGCCAGCCCCCACCCTGCGCCCCCTG  
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCACCTGCAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5351**

MGQPPAEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKCTLVPGPPGSSRPVKQVTVHLQTSLE  
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCLEVTILKTAVDG  
PDLEMLTGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSSAKVDMTFEEEAQLLQLKVKCLNNLAAS  
QLKLDHYRAALRSCSLVLEHQP DN IKALFRKGKVL AQGEYSEAIPI LRAALKLEPSNKT IHAELSKLVKKHAAQ  
RSTETALYRKMLGNPSRLPAKCPGKGAW SIPWKWLFGATAVALGGVALSVVIAARN

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**FIGURE 5352**

CTTGGCGCAGGCTGGAAGAGGAGCTGGTGAGAAGACAGCGAAATGSGCGCTCCGGCCCCCGGCCCGGCTCCGGC  
GGCTCCGGGGAGGTAGACGAGCTGTTTCGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAAC  
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCTGTATAGAGCGTACCTG  
GCGCAGAGGAAGTTTCGGTGTGGTCTTGATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATG  
TTTGCTGACTACCTCGCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC  
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC  
CTGCGTGCCTGCACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC  
CTGGACCTCGCCCGGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACT  
GCCTGGGTGAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG  
TGCTCGCCCAACCCTGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG  
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCAG  
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCAGCTGAAGGATGCCCACAGGTCCCATCCCTTC  
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCCTGAGGCTGG  
CCCAGAGCTGTGAGGACCATGAAGCCAGGACAGAGGCCAGGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA  
CCTGCATCCCTCTGGGGGCAGGAGCCACCCCCAGCACCCCATCTGTAAATAAATATCTCAACTCCAAAAAA  
AAAAA

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**FIGURE 5353**

MAPPAPGPASGGSGEVDELFDVKNIFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP  
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNITFLLMAASIYLDQNPDAALRALHQGDSLECTA  
MTVQILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAAC  
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPEVTNRYLSQLKDAHRSHFFIKEYQAKENDFDRL  
VLQYAPSA

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**FIGURE 5354**

GACATGCTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT  
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG  
AACGAATCCCTGTTGTCTTAAGTGGCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG  
ACCTCCCAGGGCCACTGTTTCTCCACCCCTGCACTTACTTCACCAGCTGGAGTGAAGGCAGGGAACCTGGGTCC  
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG  
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT  
GGTTTTGGTTTTGATTTTGTCTTGTAGATACGGTCTTGCTCTGTCGTTACGCCCTGGCATACAGTGGCACAATC  
TTGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGTGATCATCCACCTCAGCCTCCCGAATAGCTGGGACTACA  
GGCAGCATCACCATGCCTGGCTAATTTGTATATTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC  
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCCGGCCCCATTGGTAATTGTAACACCT  
TAGGATGACAACATTACAGTACCAACGCTACGACAACCTGGCAGTGTATACACCTTGTGTGCTGGAGCCTCAG  
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCTGCATGATCCCTGTACATGGTCCCTCAGCACG  
GGGAAACAGACTCAGACCTGAAGTCACTTGTCTGTTGGACCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGT  
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACACGGGCCCTGGGCAGACAGCCCCAGATGCGCGTGGA  
TGCTTACGGGTGCAGAGCCACGTTTGAACCCAGAAGAACCAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC  
CTTCTCTTTTTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG  
ACCTGTGCCCTCGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG  
CCATCTTCAGGGTGCAGCCAGCACCTGGGCTCTCAGGGAAGTGGGCGAGCTGCCCTGGCAGTGGGGGTGCCCCA  
GGGCTCCCATCCTTCTGCACGGCCCTCGGCACCCAGGCCGACCTCTGCTAGAAGACGTGGCCTTGAAGCCAC  
AGGGTTGATGGGTATGGTCAGGAGTCCCAGCTGGGCCCCACCAGCTCCTCAGGAAGGCGGGTGAGGTTGGTGTG  
AGACTGACGGTGCCCTCCTCATGTCCCTTGGAGCGCCCCACCCACATCTCCCGCCCTCGGGTCTTGCTGGCC  
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTGGGACAGCTCGATGCTCGGCCTGCTGCTGCTCT  
GCACCCCCAGGGCCTGGCTCACCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCTCTGAGGTCCCACAGA  
GGCCACCCCAGCTGTGGGTGCTGAGCATCTCTGCTTGCAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG  
AGCAGGAGCGTGGACGTGACCAACACCACCTTCCTGCTCATGGCCGCTCCATCTATCTCCACGACCAGAACCCG  
GATGCCGCCCTGCGTGCCTGCACACAGGGGGACAGCCTGGAGTGGTGGTGGCCTCCCTGCTCTGGGGCCAGCCC  
AGGGAGGCAAGTGGCCCTGCCACATCTCCAGGCTGCGCACGGCCTCGCTGGCTGTGTCATGGGAGCAGAGAAA  
GGTGGTGCTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCTGCCAGTGTGGGAGGCACTCCCATC  
TGCGCACCCAGGCTGCAGATCCAAGGACACGGTGGCCAGGCTGCAACCCTCTGTTCCCAAGGGCAGAGCAGAAAGC  
GGCTTTGTCTGCTGCTGGTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC  
TCAGGCCTCCCCGGGCCCCCATAACGGCCCTCCTCCAGGGCCCTCTGGGGTTGGGGTGTGAAGCCCTGCAAGG  
TTGGTGCCCCCTCCACCCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGCTCAGTTC  
TTCCCCGTGAGCTGTCCCTGCAGTGCCTTCCACTGTGAGTTGCAAGCTGGGCATTTATGGTGTGCTGTGGA  
TCTGCTCCCATCCACCTCCATCCACAGAGGGCTTAGAATTGCAGGGCGAGCCAGGCATGGTGACATGCACCTAT  
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT  
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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**FIGURE 5355**

GCAAAACATTTCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTGCGG  
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTGCGGGTCGTCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG  
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCGGGAAGGGGCTAGAGGCGGCTCCCTGGGTG  
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCGCGGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA  
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG  
GAGTTTGCATGGGGCCAGAGGAGGCAGTGAAGAGGGCCGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC  
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCCACACATGACATCCTGCAGATGCTC  
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTCAGCATACCTCACCCGCTTCTGCGACCAG  
TGCAAACAGGACAAGGCCTGCCGCTTCCTGCGGCGCCAGAAGGGGGCCTACCCCATCATCTTCACCTGCTGGAAG  
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA  
GACCTCCTGGATGCCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC  
TGCTCTGGGATCCGCTGTGTGCTGTCACGCTTGCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAGCTGGC  
GTGCTGCCTCTGCTGACTGGTGCCATCACCCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC  
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCCACAACCATGCCAAGATGATTGTG  
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACCAAGCGTTCTGGATAACCCCTGGCATCCTGAGCGAG  
CTCTGTGGAACCTGTCCCGCTGGCCATTGCAACGAGTTCTGCCAGGAGGTGTCGACCTCGGGGGCCTGAGC  
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTTCAGGAGCTCGTGAAG  
CAAGTGCTGAGCACCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG  
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC  
TTCCTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC  
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGCAATGCTGATCCGAAACCTGGTGGCCCCACGGC  
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATCATGCAGGCCCGATCTGCCCACCGTGAC  
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGTCATGTGCGAGCTCCGAGAGCTGTGGACAGGCCAG  
AGGGGCAACCTGGCGCCATGACCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCGTGTGACTCAGGAATGG  
GGGTAGATCCATGTCCTCCACTGTCCCCATTAGTTCTGTCCCTTCACAATGAGAAGTGTCTTCTGGCAGGGCC  
TAGGTAAAGGGTCGGGGGAGGGGGAGCCTTGTAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCCAG  
CCACTTCTGGGTCCCAGCCAGCAGCACGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG  
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG  
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCTCTGCTCCTTG  
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGCTGTCTCTGGGTCCTGGG  
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5356**

MVSKRIAQETFDAAVRENIEEFAMGPPEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEPTHDILQMLSDLQE  
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSINALSVLTDGQPDLLDA  
QGLQLLVATLTQNADEADLTCSGIRCVRHACLKHEQNRQDLVKAGVLP LLTGAI THHGHTDVVREACWALRVMT  
FDDDIRVPFGHAHNHAKMIVQENKGLKVLIEATKAFLDNPGILSEL CGTILSRLAIRNEFCQEVVDLGGLSILVSL  
LADCNDHQMRDQSGVQELVKQVLSLRAIAGNDDVKDAIVRAGGTESIVAAMTQH LTSPQVCEQSCAALCFLALR  
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAFSKPILDLGAEALIMQARS AHRDCEDVA  
KAALRDLGCHVELRELWTGQRGNLAP

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**FIGURE 5357**

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCATGGCGGTCTCTCGGAGTACAGCTGGTGGTGACCCTGCT  
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGT  
CCGATACAAGCACCCGTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG  
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCAGCTGGAGACCTGCCC  
CCTCACGACCGTGGATGCCCTGGTCCTGCGCTTCTTCTGGAGTACCACTGGTTTGTGGACTTTGCTGTGTACTC  
GGGCGGCGTGTACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT  
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTTCTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA  
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG  
GGAGGAGACCCTCGAGCTGGGCTGGAGCCTGGTCTGGCCAGCATGACCCAGAATTAGAGCCACTTCTGAAGAA  
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT  
GGGTGCCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCCAGACCCACCGGGACGCACTGACCATGTGCGGAGGACAG  
ACCCATGCTGCAGTTCTCTCTGCACACCAGCTTCTGTCTCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT  
TGCACGGGACTTCTCTGCACACCGCGCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC  
TGGGCGCCTCTGGTTGCTGGTGGTGCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT  
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG  
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGCACTACCTGACGCCGCTCATCTCACCCTCAACTG  
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCCAGCTCCTCTACTATCCCCGACCCATC  
CTCAGCCAGCGCTGCCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT  
GGGTGGCCTGCTTACTCCCCCTTCTCTCCGTGGCGTCTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT  
GCTCGCCAGCCTTTTCGGCCTTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCCTGCAGACCCTCCTGGGGC  
CCTGAGGTCTGTCTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGGCCCCCGTGTCCCAGCTGCAAG  
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGC  
CTCAGAACTGTCTCTCTGGGCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGT  
TGAGTGGCAAGGGTGATGCTGGCTGCTCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

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**FIGURE 5358**

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA  
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG  
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCCTTGAGAGACG  
AGTTGGGGGAGTCTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCGCCCTT  
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG  
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA  
GAGAACTGGGCTTTGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC  
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC  
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG  
TGTTTCCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCACTCTCACCACCGGCAGCGAGGGAACGAGGTGTC  
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTG  
GGCCTCCGCCTTTGGAGAGATTGAGACCGTTGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA  
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA  
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATG  
CGTTGAGGCCTTGTGGCCCCGAGGCGCTGACCTACCAACCGAAGCCGACTCTGGCTACACCCGATGGACCTTGC  
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT  
GCCCCGCTGACCCTGAGTGAAGGCCCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG  
GGAAACCCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATA  
AACCTTCTGTGCAGAATGA



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**FIGURE 5359**

MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQGSSSLKHSTTLNR  
QRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV  
GLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK  
LFQSNLVPADPE

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**FIGURE 5360**

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTCAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA  
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG  
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCCTTGAGAGACG  
AGTTGGGGGAGTCTCCACGCAATTACCCACTCGGGCCGCAAAAATCCCTTCTTTAGCCCTCTGCCCCGCCCTT  
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG  
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA  
GAGAACTGGGCTTTTCGGCGCGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC  
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC  
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG  
TGTTTTCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCCTCTCACCAACCGGCAGCGAGGGAACGAGGT  
GTCAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA  
GGAGCATTTCGGGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTCACCCCCCTCATCTGGGCCCTC  
CGCCTTTGGAGAGATTGAGACCGTTTCGCTTCCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAGAGCG  
AGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA  
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATGCGTTGA  
GGCCTTGCTGGCCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC  
CCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC  
TGACCCTGAGTGAAGGCCGCCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC  
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT  
CTGTGCAGAAATGA

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**FIGURE 5361**

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTLTN  
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADP  
HILAKERESALSLASTGGYTDIVGLLLRDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT  
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE



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**FIGURE 5363**

MQEPRRVTHCLGKRGVKTPLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG  
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLIYGHWSIMKWNRRERRRLQIEDFEA  
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPPLIGELYGLRTTEEALHASHGFMW  
YT

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**FIGURE 5364**

GCCCCCTCCCCGCCCGCCTCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCGCACCCCTGCTAACATGG  
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC  
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA  
AATTCACAGAGAAACACGAATGGGTAAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGCACAGG  
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG  
CTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCAGGAGAAGTAACTGAAATTAATGAAGCTC  
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC  
CTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAGTGAATAATGGA  
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTCTTAAATTAGTGGTGGATAGAAGACTTAG  
AATAGAACTTTTAATATTACCGATGGGGGAAAAAACTACTGTTAACACTGCTAATGAAAGAAAATGCCTTTAA  
CTTTCTAATGATTATAGATAAATATAATATGCATCTTTTTCACAATATCCTATGATTTTACTAGGCTCTAGT  
GTTCAGAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAATTACATAATTCAAAGATAACATTGTTATT  
CTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGGATTGGGATGAAATACTTAATGATCTTTCC  
ATTGGAAATAACTGGAAGTGAAGAGGTTTTGTTGCTTGTACAGTGTGAGATGAGGAACACCACTATTTTAATTTT  
GCGATACACTGCATTGCTGGTGCTATTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC  
TTTGTT

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**FIGURE 5365**

MALRVVRSVRALLCTLRAVPSPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTKHEWVTENGIGTVGISNFA  
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS  
NPSELDELMSEEAYEKYIKSIEE

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**FIGURE 5366**

TACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG  
CGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA  
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCT  
CCCGCTCCTGAGITCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT  
ATTCAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG  
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAA  
ATGGTTGATGGAAAAATAACATCAGTTTCT



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**FIGURE 5367**

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTTAAAGGGAACTTT  
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCA  
CTTAGGTGGCACC AATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT  
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGT  
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT  
TGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGT  
TACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAA  
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT  
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCC  
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA  
GGAGGAATTT CAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTC  
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATT CAGCAATCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA  
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCT  
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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**FIGURE 5368**

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT  
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE  
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQFAMEDWSAAPTQAQATEWVGATTDWS

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**FIGURE 5369**

CTTCCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA  
GAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAGGATG  
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCTGCCA  
GCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC  
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGAT

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**FIGURE 5370**

GTCGTCACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG  
GAGCGGCTGTGCCATGTTGTGCGGTAGCATCCCGCTCAGGCCCGTTTCGCGCCCGTCTGTGCGCCACGTCCCGCG  
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGACAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGA  
AGCGGCCCTTCCCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCA  
ATGTCCCTGCTTCTGTTTGTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAG  
TTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAA  
CTACTGTGGGTGTGCGCATATGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG  
TGTTGGCCCTGGCGAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG  
GCAAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA  
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCATCATCTTG  
GCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCAT  
CTGGCAGGATCAGATTGGGTCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCAGTGACGATATGG  
TGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTAGTCTTTATGTCACCTCAGGAGACTTATTT  
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTG  
AAATAAATTGAATTTAATGTTGAATACTTTAGGCATTCACTTAATAAAGACACTGTTAAGCACTGTTATGCTCA  
GTCATACACGCGAAAGGTACAATGTCTTTAGCTAATTCTAATTAATAAATTACAGACTGGTGTACAAGATACTTG  
TG

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**FIGURE 5371**

ACTGGAGTAACTACTGIGGGTGTGCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT  
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG  
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGT  
ATCCTGATAGGTGTTTGCCTCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC  
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTGAAGTCCCC  
ACGTATGAGTTCACCAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG  
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTGAAATATGTAAGAAT  
TGATGATGTATTTGCAAACATTAATGTGAAATAAATTG

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**FIGURE 5372**

GGGCCTGCGGGAGCGCGGCCTTGCGGTTCCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC  
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGGAGGGGGTGCCAGCAGCGACCCCCGGCT  
CCCCCTAAGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCCGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG  
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCTGCGCGACCTCCGCGGGGCTGGGGAG  
CTGGGCGGGGAGCCCGGGGCTGCCAGGCCCGGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCTAGACCTC  
CGCTCCCCAGCCACCGTCTGGATGCTGTCTGTCTATACAGGCGCTTGGAGCTGCTGAGCTTTCTGAAAAGGGG  
ACCCTTCTTAAACTCTAGGAAGTAGAGTGGCATTGTGATGGAAATACTCTTATGCTCATTGAACTGTCCCTC  
TGAAGTCTCCCTCGAAGGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC  
TGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCCTGGTTCACAGGGGGCCATGGCCTTCGT  
CGGGGGTTTGGTGGGCGGGCCACCGGGACTCGCGTGGGGGGGCTGTGCGGGGGGCTGTAGGTGCCTGGATGAC  
AAGTGGACAGTTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTAAACGA  
AGCCGCAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGCTGGTTCATGGGCAGCGAGGC  
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA  
CTAGGCCCGCACCTCCGGGGAGGTGGGGGGCCCCCTTAAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG  
GGAGAAGCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCGCTGGAGAGG  
CCACCGCTGTGCAGTGTATGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC  
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCTGCTGCCGACGGCTTCGGAGGCGTCTGCTGA  
GTCTCTCACCCGCATGGGTCTGGGGAAGTATCACGCTCAGCCGACGGTCTGACCACACTTCATCTCCCCCG  
GGGCCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCCACCCCCCTGCAGGTC  
CTGGGGTCTCAGGGCCTTGGAGCAGCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCCTACCCAGG  
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC  
GGCCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCATCTGAAAAGTCTGGTAGTT  
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT  
TCCAGACCACCTCGGTAAAGCCAACATCACAATAAAGCAAGGAAGCGCATTGTTTTAGTTTCCAGTGCATCTAA  
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT  
AAAAATATTTACTGTTCAAAATGCTGACACAGAAACGCAAAGTGAGCACATGCTGTTGGAAAATGGTGCCAAATA  
GACTTGCCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAACAACAGTATTCACAAAGCATAGTAGAAT  
GAGGTATGCCGTGATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCTAAAGAT  
TTCCCAGTACAGTCAGCTCTCCGTAAGTGTGGTCTCCACATTTAGATCCAACCAGCCTGGATAGGAAATATTT  
GAAAAAAGAAATTCATTGGTACTGAACACGTACAGACCTTTTTTCTTGCCATTATTCCTAAACAATATGGTG  
TAGCATATTTACATAGCATTTATATTGATTTGGTATTATAAGAAATCTAGAGATGATTAAATTATACAGGAAG  
GTGTGCGTAGGTTACGTGCAACGCTATGCCATTGCCCATCAGGGACTTGAGCATCCTCAGATGTCGGTGTCTGA  
GGGTTGAGGTTGAGTCTGGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTTCACTTTGC  
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTTCT

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**FIGURE 5373**

MTIMVEDIMKLLCSLSGERKMKA AVKHSGK GALVTGAMAFVGGLVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ  
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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**FIGURE 5374**

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCCGCG  
ACTCCCGGCGCCCGCCGCCACTGCCGTGCGCGCCGCCGCTGCCGGGACTGGAGCGCGCGTCCGCGCGGAC  
AAGACCCTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC  
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTG  
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT  
AATGCAGTCTGTGAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAAC  
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG  
GAAGTCTGGAAAAATCATGTTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCCTCTT  
CTGCAGCCAAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG  
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAG  
CTTATTGGGATTTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGCG  
TATGTGACAGATGGAGCTTGTTCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG  
CGTTTAAGTCCCTGACTATTGTGTCTGCTGGAATGTATACATGCAGGTTCATATCTAAATGACTTACATGAA  
GTGCTACTGCCGAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTGGATGTT  
GACTGCCTTGAATTTCTTTATGGTATACTTGCTGCTTCGGCCTTGTATCATTTCTCGTCATCTGAATTGATGCAA  
AAGGTTTTAGGGTATCAGTGGTGCACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGG  
GAGACGGGGAGCTCAAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA  
GACAGCTTGGATTGTGTCGACAAAGCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTC  
CCCAGTGGGCTCCTCACCCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGAAATGGCGTGACCACCCCAT  
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTTCTGTCTGTGTCAGCGGAGGCGTGCCTTTGCT  
TTTACAGATATCTGAATGGAAGAGTGTCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAA  
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGT  
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAGCTTGAAGCTGT  
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGG  
GCAAGCGTTGTGACAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAA  
TGCCTTTGATGAAGTGTGTTTGTAAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGAC  
AAAAAAA



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**FIGURE 5375**

MPRERRERDAKERDTMKEDGGAEFSARSRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLI  
PTPDKEDDDRVYPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLD  
WLMEVCEVYKLHRETFYLAQDFFDRYMATQENVVKILLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE  
ILTMELMIMKALKWRLSPLTIVSWLNVMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA  
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDDLDKARA  
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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**FIGURE 5376**

GTGCTCACCCGGCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACCATGAAGGAGGACGGCGGC  
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTGCAGGATCCAGATGAAGAAATG  
GCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC  
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTTACCCAAACTCAACGTGCAAGCCTCGGATT  
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAGGAAGTCTGGAATCATGTTA  
AACAAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTTCTGCAGCCAAAATGCGAGCA  
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT  
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAGCTTATTGGGATTTTCATCTTA  
TTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGCCTATGTGACAGATGGAGCTTGT  
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT  
GTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCGCAGTATCCC  
CAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCCTGGATGTTGACTGCCTTGAATTTCTTAT  
GGTATACTTGCTGCTTCGGCCTTGATCATTCTCTGTCATCTGAATTGATGCAAAAGGTTTCAGGGTATCAGTGG  
TGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTGGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG  
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTGCTGGAC  
AAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCG  
CCACAGAGCGGTAAAGAGCAGAGCAGCGGGCCGGAATGGCGTTGACCACCCCATCCTTCTCCACCAAAGACAGTT  
GCGCGCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTTCGTTTTGCTTTTACAGATATCTGAATGGAA  
GAGTGTTCCTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTTCCTTATTGAATGCTTA  
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCCTGCTCCCGATGCTGCTAT  
GGAAGGTGCTACTTGACCTAAGGGACTCCCAACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGGC  
TCTCCTCGCAGGTGTTCTGGGCTCCGTGTACCAAGTGGAGCAGGTGTTGCGGGCAAGCGTTGTGCAGAGCCCA  
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTGTTG  
TAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGACAAAAAAA

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**FIGURE 5377**

MKEDGGAEF SARSRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDPKEDDDRVPNS  
TCKPRIIAPSRGSPLPVLWANREEVWKIMLNKEKTYLRDQHFLQHPQLPKMRAILLDWLMEVCEVYKLHRET  
FYLAQDFFDRYMATQENVVKLLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR  
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILAASALYHFSSELMOK  
VSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARAKKAMLSEQNRASPLP  
SGLLTPPQSGKKQSSGPEMA

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**FIGURE 5378**

TATAAAAGCTGGGCGGGCGCGGGCCGGGCCATTTCGCGACCCGGAGGTGCGCGGGCGCGGGCGAGCAGGGTCTCCG  
GGTGGGCGGGCGGCGACGCCCCGCGCAGGCTGGAGGCGCGGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCCC  
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGCCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG  
CCCAGCAGCGCCGCTTTCGGCTTCCCCGGGGCGCGGGCCCCGCGCAGCCTCCCGCCCCACCTGCCGCCCCGGAG  
CCGCTGGGCGGCATCTGCGAGCACGAGACGTCCATCGACATCAGCGCCTACATCGACCCGGCCGCTTCAACGAC  
GAGTTCTTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCGCTGGGCCCCACGGGCGGC  
GGCGGCGGGCGGCGACTTTGACTACCCGGGGCGCGCCGCGGGCCCCGCGGCGCGCTCATGCCCGGGGAGCGCAC  
GGGCCCCCGCCCGCTACGGCTGCGCGGCCGCGCGGTACCTGGACGGCAGGCTGGAGCCCTGTACGAGCGCGTC  
GGGGCGCCGGCGCTGCGGCGCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG  
GCGGGCCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCACCCGCACCCGCCGCCGCCGCGCAC  
CTGGCCGCCCCGCACTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC  
ACGCCGCCGCCACGCCCGTGCACAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCTGCCGGGCCCTGGC  
AGCGCGCTCAAGGGGCTGGGCGCGCGCACCCCGACCTCCGCGCGAGTGGCGGCAGCGCGCGGGCAAGGCCAAG  
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGGTGCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGC  
GACAAGGCCAAGCAGCGCAACGTGGAGACGCAGCAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCTGCGC  
AAGCGGGTGAACAGCTGAGCCGCGAACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCAGAGAGCTCCTTG  
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGGCTGTGGGACCGCCCTGGGCCAGCTCCGGCGGGGACCCA  
GGGAGTGGTTTGGGGTGC CGGATCTCGAGGCTTGGCCGAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCCT  
CCTGAAAGCCTGGCCTGCTCCGCGTCTCCCTCCCTTCCCTGCGCCGAGCTTGGTGCCTAAGATGAGGGGGC  
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCGGCAACTCTAGTATTTA  
GGATAACCTTGTGCCTTGGAATGCAAACTACCGCTCCAATGCCTACTGAGTAGGGGGAGCAAATCGTGCCTTG  
TCATTTTATTTGGAGGTTTCTGCTCCTTCCCGAGGCTACAGCAGACCCCCATGAGAGAAGGAGGGGAGCAGGC  
CCGTGGCAGGAGGAGGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCAAGCCTGTC  
CTAGAAAGGGGTGGAACATAGGGACTTGGGGCTTGGAACTAAGGTTGTTCCCTAGTTCTACATGAAGGTGG  
AGGGTCTCTAGTTCCACGCCTCTCCACCTCCCTCCGCACACACCCCAACCCAGCCTGTATAGGCTGGGCTTCC  
CCTTGGGGCGGAACTCACTGCGATGGGGGTACACAGGTGACCAGTGGGAGCCCCACCCCGAGTCACACCAGAAA  
GCTAGGTCGTGGGTCAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG  
GGCATGGGGGTGAAGGGCCACTGGGACCCTCAGCCTGTTTGTACTGTATGCCTTCAGCATTGCCTAGGAACAC  
GAAGCACGATCAGTCCATCCAGAGGGACCGGAGTTATGACAAGCTTTCAAATATTTTGCTTTATCAGCCGATA  
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCCTTGTGCAATGTGAATGTGCGCGTCTCTGCTAAACCAC  
CATTTTATTTGGTTTTTGTGTTTTGTTTTGTTTTGCTCGGATACTTGCCAAAATGAGACTCTCCGTCGGCAGCTGG  
GGGAAGGGTCTGAGACTCCCTTTCTTTTGGTTTTTGGGATTACTTTTGATCCTGGGGACCAATGAGGTGAGGGG  
GGTCTCCTTTGCCCTCAGCTTTCCCCAGCCCTCCGGCCTGGGCTGCCCACAAGGCTTGTCCTCCAGAGGCCCT  
GGCTCCTGTCGGGAAGGGAGGTGGCCTCCCGCCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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**FIGURE 5379**

TTGAGGGTCAATTCCAAACTCCTTCACTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA  
AGGATCCTTGGCCGCCTGGAGAAACCACTCCTTCGCCGTCTCTGCATTTCGTGATGGTCTCCTGGGTAGTAAAGGT  
CTTGGAGGCAATGATGAACAGGGAGGACTCGGGGTTTCAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT  
GTTGGAGACATACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG  
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCTGATGGTCTTGCCTGTGTACCCCTTCCAGTCACCGCTCCG  
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCTTGTTGACCTCTGGCATCACATCCTTGCCGTCTACCAG  
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCCTCGGTGTAGTTGATCTTCTCACC  
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCTCTC  
CGTCACCAGGTTCTTGGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGAGGGTCAAGCTGAAGTGGTTGAA  
GCGGTCCTTGTGTCATCGAAGAGGCGGCGCAGGTTTCAGCTCGGAGCGGTGCTCGCGGTACCATTGCTGCAGCTT  
CTGGAAGTGGGGTCCCGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA  
GGAAGGAGCGCCGGCAGCGCGCAGCA

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**FIGURE 5380**

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC  
TGTGCCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT  
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAAACCCCCCTCCCCGATTTAGA  
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC  
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA  
CCACCCCCAGTGTCCCCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT  
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAC  
AATGGAACCTGGTACCTAGAGAAGGATGAGAAGGATCCCCGTGAACCCTAG

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**FIGURE 5381**

MTKKRKNNNHAKKGRGHMQPICCMNCARCMPIKYKAVKKLLYVKLHYCVSCAIHSKVVRNRSHEARKDPTPPPRFR  
PAASILTPKSNHSTQTKCSMDIGKVNEITYKEYYKLIKENLHQKRKPPPPVSPRLKVQACPGPGGIESARS  
GHVMQVRIPVCQVSSSLVTRLTDKTINGTWYLEEDEKDPREP

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**FIGURE 5382**

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT  
GGACGCAGCAGCCACCGCCGCTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC  
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC  
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTTCAGGTCCTCGACACGAGCCCCAGATGCAGTCTACACAGA  
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCCAGCAACT  
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCACTGATGA  
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCAAGACCCCTCAAGCCATCTGG  
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAACGGGGGCTGTTGGTCGCAGCTGTGCT  
GTTTCATCACAGGCATCATCATCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG  
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCGTGCC  
CAGCCTCCTGCATCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC  
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG  
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC



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**FIGURE 5383**

GTGAGCGCCGGGCTCGGGGCCCCCGGCCGCCCCCTCCCCTCCCCTCCCCTCCCCTCCCCTCCCCC  
CGGGCCCCGCGCCCCCGCCCCGCCCCCGCCCCCATGGACATGCTGGACCCGGGCTCTGGATCCCGCTGCCTCGGC  
CACCGCTGCTGCCGCCGCCAGCCACGACAAGGGACCCGAGGCGGAGGAGGGCGTCGAGCTGCAGGAAGCGGGGA  
CGGCCAGGAGCGGAGGAGCAGACAGCGGTGGCCATCACCAGCGTCCAGCAGGCGGCGTTTCGGCGACCAACAAT  
CCAGTACCAGTTCCGCACAGAGACAAATGGAGGACAGGTGACATAACCGCTAGTCCAGGTGACTGATGGTCAGCT  
GGACGGCCAGGGCGACACAGCTGGCGCCGTCAGCGTCGTGTCCACCCTGCTTCGCGGGGGGGCAGCAGGCTGT  
GACCCAGGTGGGTGTGGACGGGGCAGCCAGCGCCGGGCCCCGCGCTGCCTCTGTGCCCCAGGTCTTCGAGC  
GCCCTTCCCCTGGCTGTGATCCAAAATCCCTTCAGCAATGGTGGCAGTCCGGCGGCCAGGCTGTTCAGCGGGGA  
GGCACGATTTGCCTATTTCCAGCGTCCAGTGTGGGAGATACTACGGCTGTGTCCGTACAGACCACAGACCAGAG  
CTTGACAGGCTGGAGGCCAGTTCTACGTCTATGATGACGCCCCAGGATGTGCTTCAGACAGGAACACAGAGGACGAT  
CGCCCCCGGACACACCCCTTACTCTCCAAAATTTGATGGAACAGAACACCCCGAGATGAGAGGAGAAGAGCCCA  
GCACAACGAAGTGGAGCGGAGGCGGAGGGACAAGATCAACAACCTGGATCGTCCAGCTTTCGAAAATCATTCCAGA  
CTGTAACGCAGACAACAGCAAGACGGGAGCGAGTAAAGGAGGGATCCTGTCCAAGGCCTGCGATTACATCCGGGA  
GTTGCGCCAGACCAACCAGCGCATGCAGGAGACCTTCAAAGAGGCCGAGCGGCTGCAGATGGACAACGAGCTCCT  
GAGGCAGCAGATCGAGGAGCTGAAGAATGAGAACGCCCTGCTTCGAGCCCAGCTGCAGCAGCACAACTGGAGAT  
GGTGGGCGAGGGCACCCGGCAGTGACGCCCCGCCACCACCGCAGCCGCCCGCCGCCACCGCCGGCCTCTGCTGCC  
CCCTTCCCCAGCCCTTAGCACAGAGAGGGACACATGCCCTCCCCCAGCTGCGTTTTTTTATAGTAGATTTTAA  
CAAAAAACGGGGAGAAATAATGCATTTCTGTGGATACAGTGCCCAACCGCCCTCCTCCACTTGGAAACGGTATCCT  
CCCTGCCCATCCGTCTGTCTGTCTGCCCTTCTCCCGCCCTCACTAAGCCCCGGCACTTCTAGTGGTCTCACCTGG  
AGGCAAGAGGGAGGGGACAGAGGCCCTGCCACGTCCCGCTGCCTCCTGCTCTCTGGAGGTACTGAGACAGGGTGC  
TGATGGGAAGGAGGGGAGCCTTTGGGGGGCCACCGGGGCTGGACCTATGCAGGGAGGCCACGTCCCACCCAC  
CTCTTGTTTCTGGGTCCCTGCTCCCTTTGGGGGTGTGTGTGTGTGTTTAATTTCTTTATGGAATAATTGACA  
AAAAAAAATAGAGAGAGAGGTATTTAACTGCA

**FIGURE 5384**

GAGGCCCGGGAGCGGCAGTGGAAACCGACTCCCAGAACTCCGGACGTGTGCGGCGCAGTGAGTCGCAGCCATGTTCTGGTTAACTCGTTCTTGAAGGGCGGCGGCGGCGGCGGCGGCGGAGGCGGGGGCCTGGGTGGGGGCTGGGAAATGTGCTTGGAGGCCTGATCAGCGGGGCGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTGGTGGAGGCGGCGGTGGCGGTGGAACGGCCATGCGCATCTTAGGCGGAGTCATCAGCGCCATCAGCGAGGCGGCTGCGCAGTACAACCCGGAGCCCCCGCCCCACGCACACATTACTCCAACATTGAGGCCAACGAGAGTGAGGAGGTCCGGCAGTTCGGAGACTCTTTGCCAGCTGGCTGGAGATGACATGGAGGTCAGCGCCACAGAACTCATGAACATTCTCAATAAGGTTGTGACACGACACCCTGATCTGAAGACTGATGGTTTTTGGCATTGACACATGTCGCAGCATGGTGGCCGTGATGGATAGCGACACCACAGGCAAGCTGGGCTTTGAGGAATTCAGTACTTGTGGAACAACATCAAAAGGTGGCAGGCCATATACAAACAGTTCGACACTGACCGATCAGGGACCATTTCAGTAGTGAACCTCCAGGTGCCCTTTGAGGCAGCAGGGTTCCACCTGAATGAGCATCTCTATAACATGATCATCCGACGCTACTCAGATGAAAGTGGGAACATGGATTTTGACAACTTCATCAGCTGCTTGGTCAGGCTGGACGCCATGTCCGTGCCCTTCAAATCTCTTGACAAAGATGGCACTGGACAAAATCCAGGTGAACATCCAGGAGGTAAGGACCCCCATATTGGGGTATGGGTGCCCTGGGAGGACCCCCACCCCTCAGCCCTTCATACCAGCTCTGAGCTGCAGTCCCCCTTCTCTCTATTTTGCCAGCCGTCCCTGGGTGAGGGCAAAGGGGCTGGTGCTCTTGGGGTTCCCTGTCTCTACTCTCCACCCTCTCTCCCCAGTGGCTGCAGCTGACTATGTATTCTGAACTGGAGCCCCAGACCCGCCCTCTACTGCCTTGCTATAGGAGTCACCTGGAGCCTCGGTCTCTCCCAGGGCGATCCTGTCTGCAGTCACATCTTTGTGGGGCCTGCTGACCCACAAGCTTTTGTCTCTCAGTACTTGTATCCAGCTTCTCAACATCCAGGGCCCAATTTGCCTGCCTGGAGTTCCCCCTGGCTCTAGGACACTCTAACAAGCTCTGTCCACGGGTCTCCCCATTCCCACCAGGCCCTGCACACACCCACTCCGTAACCTCTCCCCCTGTACCTGTGCCAAGCCTAGCACTTGTGATGCCTCCATGCCCGAGGGCCCTCTCTCAGTTCTGGGAGGATGACTCCAGTCCCTGCACGCCCTGGCACACCCTTCACGGTTGCTACCCAGGCGGCCAAGCTCCAGACCGTGCCAGACCCAGGTGCCCCAGTGCCTTTGTCTATATTCTGCTCCCAAGCCTGCCAGGCCAGGAGGAAATAAACATGCCCCAGTTGCTGATCTCT

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**FIGURE 5385**

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCATTGCCAAGATGTTTGGCCATTTCAGAAAT  
TATTACCAGCATGAAGTTTACCTATGACTGTCTATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTTCATCTG  
GCACCTGGGCCCCGAGATCACC AACTGCATGAAGCAGCACTTGCTGGAGATTGACCACCGGCAGCAGCAGCA  
CACAAATGACAAGAAGCGGAGTGGCCACCC CAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT  
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA  
AGATAGCTTGATCCAGATCCTCGTTGCCTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG  
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG  
GGCCGGCC AAGAGCCCCCTCAAGACCATCCTGGATGCC CAGGACCTGGATTGCTACTTTACCCCCATGAAGCCCGA  
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC  
CCAGGAAGCTGGCCCGGGGCACCCCTCCTTCCTGCC CAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT  
CTACTCTCTGGAGGCAGAAAGTGACAGTCA CAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC  
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCAAAGGACCAGAGCCCGCCTGAGGACTC  
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGCAGCCATCCACTCCCCAGCTCCGCTCCTGACCTGCCCC  
TCGGTTTGCCACGTGCTGCCCCATTTCC CAGGATGCGCAGGTCCCACAGAAGATGAGCTGTCCCTGCCCGAGGG  
ACCCAGCGTCCCCAGCAGCTCCCTACCC CAGACTCCGAGCAGGAGAAGTTCCTCCGCCACCACTTTGAGACACT  
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT  
GAGTATCTCCACGCAGTTCCCTCAAGCCTCCAGAAGGCATCCAGGTTCACCCATACCTTCCCTCCCGGGCAAC  
CCAGTGCCTTGTGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCCAGAGCAGGTACTGGCTA  
CGCCTCCCCAGACAGGACCCACGTCCTCGCTGCAGGGAAGGCTGAAGAGACCCTGGAGGCCTGGCGCCCAACC  
TCCCTGCCTTACGAGCCTGGCGTCTGTGTCCCTGCTTCTCCGTGCTGCCACAGACAGGAATCTCCCAACGCC  
CACATCTGACCCACCC CAGGCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTTACATGGAGGCCACTGC  
CAGTCCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA  
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCCTTGGGCCAGGAGCTTCAGGCCATCACCACCGCGAC  
AACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCTTGGGGCAACCACGAGGCCCGGGCCAACCT  
GAGACTGACCTGTCAAGTGCCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTCACCGTCCC  
TGCAGTGAGCTTCC CAGCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTTCGCCAAG  
TCTCC CAGCTCCTGAGTCCCCTGCCCTTCTGCCCCACCCAGTAACCC CAGCTTCCAGAGGCCCGGCTGGCAT  
CCCTGGCGGCACTGCCTCCCTCCTGGAGCCCACCTCCGGTGC ACTTGGTCTGTTACAGGGCAGCCCTGCCGCTG  
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCATCTCCCTTGAGCTGAGCAGGCTGGGGAACATCTTGCA  
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG  
GCAGCAGCAGGCACGGA CTGAGCTGGTCTCCACCTTCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT  
GGGGACTAGTGTGGCCCCAGCC CAGGCTCTGCCAGCCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC  
CAGCC CAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGG  
GCACTGAAGGGCGCAGCCCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTTAAGCGAATAAACTGAC  
AGCTTTG

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**FIGURE 5386**

MKPESLENSILDSLEPQSLASLLSESESPQEAGRHPSTFLPQQKESSEASELILYSLEAEVTVTGTDSQYCRKEV  
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEDLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS  
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFP  
PRATQCLVKSPFEVKLMDRGGSQPRAGTGYASPDRTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPTDRN  
LPTPTSAPTPLAQQGVHAPSTCSYMEATASSRARISRSISLGDSEGPVATLAQPLRRPSSVGELASLQELQAI  
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVPVAVSFPAPSPVEESALRLHGS  
FRPSLPAPESPLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWPVEALPPSPLELSRVG  
NILHRLQTTFQEAALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALPSPGPPSPPTL  
YPLASPDQLALLEHYSELLVQAVRRKARGH

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**FIGURE 5387**

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC  
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCACTGTGTTACTTAGGGTCAAGGCT  
TGGGTCTTGCCCCGCAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTCCAATGAG  
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTTCTGCCTTTTCTCTGGTTGGTCAACATC  
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTTCCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC  
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC  
TGGGGTGCCCTTGGGGACTACCTCTCCTTCACCATACCCCCTGGGCACCCCTGACAACTTCTGCACATACTGGGG  
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCTGGGAGCCCCCTTCTCAAACCTCCTAAG  
ACTTGTTTTCAIGTCCACGTTCTCTGCTGACATCCCCCAATAAAGGACCCTAACTTTCCAAAAAAAAAAAAA

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**FIGURE 5388**

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKKREMDDGLAEGGP  
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNSPSVRERECSPSSPLPPLPEDEEGSEVTNSKSRDVYKLP  
PPTFPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKIRQRWKEASHRNQLRYSESMKIL  
REMYERQ

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**FIGURE 5389**

GGCACGAGGGGGGAGAGTAGACAGCAGAACCAGCGGCGGGCTAAGCAGAGACTGTAGTAGCGGCGACAGCGAC  
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGCAGGAGGACCCGTGGTCCCGGGTCCTGG  
CGCTGGCATCCCGGGCAAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTGAGCAGGA  
AGTTCTGGGGGCTCCAGTACCTGGAATCCCACTGCTGTGCCTGCGGTGCCCACTGTCCCCACGGTCCCCACAGT  
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA  
GACTCTGGAGGCCCCGAGCAGCTGCTGCAGCCACAGTAGTTCTCCCATGGTGGGTGGCCCTCCTTTGTAGGCCC  
TGTTGGCTTTGGCCCTGGTATCGGAGTCACCTGGACAGCCCAGAGGCTCGAGAAGCCATGTTCTCTGCGGCGGGC  
AGCTGTGGCCCCCAGAGGGCCCCCTATCTGCGTCCAGCCTTCGTCCCCACGTGCTACAGAGAGCAGATTCCGC  
TCTCTCCTCTGCAGCAGCCGCCCCCGCCCTATGGCCCTACGGCCCCCTCACCAGGCCCTCGTGGGCCCCCTCT  
GCCTGGGCCCCCTGGACCACCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC  
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGACCCCCGAGAGCTGGGCCTAGGCCTGGGGTTGGGCCTGAAAGA  
GAAGGAAGAGGCAGTGGTGGCGGCGGGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGCAGGAGG  
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCGAGCCTGAGCC  
CCTGCCCCCTCCCGTTGGAGGTGCTCCGCGGCCCTCCTGCCCCGCTGCGCATTCTGAACTCCTGTCCCTGCGTCC  
TCGGCCCCGGCCCCCTCGGCCAGAGCCACCCCCAGGCCTCATGGCTCTTGAGGTCCCAGAGCCCCCTGGGTGAAGA  
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGCTGCATTGCGACAGCGGCAGGGAGCAGCTGGGAGGACCCAG  
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT  
GGCACGCGCCTTCAGCCGCTTCCCATCCTTCCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA  
GGGCTACGGCTTCGTGAGCTTCAAGGACCCCCAGCGACTACGTGCGGCCATGCGTGAGATGAATGGGAAGTATGT  
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA  
GGAAAAGAAGAAGCTGGGCCTGAGATAGGGTCTGTGGCCAGGCACCCGCTCCACCTGGCCGGGCGCTGGCTCCT  
CCCTCAGTTCTTTTGAAAACCCCCAGCTGTCCACCCATCCCTGCCCCAAAACCAGTTCAATAAATTTACGT  
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5390**

MAGAGPAPGLPGAGGPVVPFGGAGIPGKSGEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM  
QVPAAPVIRPIIATNTYQQVQQTLEARAAAAATVPPMVGGPPFVGPVGFPGDRSHLDSPEAREAMFLRRAAVA  
PQRAPILRPAFVPHVLQRADSALSSAAAGPRPMALRPPHQALVGPPPLPGPPGPPMMLFPMARAPGPPPLGSMAALR  
PPLEEPAAPRELGLGLGLGLKEKEEAHVAAAAGLEEASA AVAVGAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL  
PLEVVRGLLPPLRIPELLSLRPRPRPPRPEPPPGMLALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE  
WDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGKTKGYGFVSFKDPSDYVRAMREMNGKYVGSR  
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR



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**FIGURE 5391A**

CGGTGTCGCCGCCGCGCGCTGTTCATGGAGCTAGCGCAGGAAGCGCGGGAAGTGGGTGCTGGGCGGTGGAAGAG  
ATGGGGGTGCCCCGTGGCGGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC  
TGGGCTTACATCTTGCAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC  
CACCAGGACAGTCCACAGGTCCGTTCGGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCTGCGGGCAGAAATCCAG  
GAATCGACAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTCAG  
CACACTCAAGACACCCAGCGTCGAGCTCTCTCTCCGGGCCAAGCTGGGGCCATGCGAAGACAGCAGCATACG  
CTCCGAGATCCCATGACGCGGCTGCAGAACTCAACTGAGGCGCTGACAGGACATGGAGAGGAAAGCCAAAGTAGAT  
GTGACCTTTGGATCCCTCACGTCGGCAGCTCTGGGCTGGAGCCCGTGGTCTGCGTGATGTCCGAACAGCCTGC  
ACCTCCGGGGCCAGTTCTCTGCAGAACCTCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT  
GACCACTTTGGCACTTCGTACCAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCAGGCCAC  
GTCCTGGCTGCCTTGGAGCACCTGGCTGCAGAGCGGGAGGCAGAGATTCCGTCCCTGTGAGTGGGGATGGGCTT  
GGCGACACAGAGATATCCAGACCCAGGCCCGGACCAGTCAGACTCCAGCCAGACCCTGCCGTCCATGGTTCAT  
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCAGCGGAGCACCTCTGAAGGAGCGGCAAGTC  
TTGACCCAGCGCTCCAGGGCCTGGTGGAGGAGGTGGAGAGACGCGTCTGGGATCCAGTGAGAGGCAGGTGCTG  
ATACTGGGGCTTCGGCGCTGTTGCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT  
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG  
GTGGAGGAGACCCAGGAACAGGTCCGCTGCTCATCAAGGAAACTCGGCCAGCAAGACCCGCTGTGCCGGAGC  
CCGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACCACAGAGCCGGGAG  
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTGCCCCACATTCTGTGGGCACGCTGCTGCCGCACAGGCCG  
GGAGAGTTGAAGCCCCTGCCACGGTCTCCCATCCATCCACCAGCTGCACCCGCGTCCCCAAGGGGCTCCAGC  
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCTCGGAGCTGCTCCTGCCGGCGGCTGCCTCT  
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTGTTGGATCTACTCCACATGAAGACCAGC  
CTGCCGCCAGGCCTTCCCACCCAGGAGCTGCTGCAGATCCAGGCATCCAGGAAAAACAGCAGAAAGAGAACCTG  
GGGCAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCACTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG  
GGGACTGGTGGGAGCAGCCAGGCCAGGCCGCCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG  
CGGCTGCGCTGGGTTCAGGCCCAGGGGGCCCTGCAGAAGCTGTGCAGCTGAAGAGAGGGTTCAAACGGAAGCCGA  
GAACCTTGACACTGTTACCCCCAACCTCACCTCCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCTCTCG  
CAGTCGTCCCCACCCGCACCTGCAGTCCCTCATGTGCTGTTCTGCTGCCCCACTCAGCTCCTGGACCTGTCTCT  
TTCATCCCGCTAAAGCACCCCTTAAACCCCTTCATCACTTTCACTCTCAGCAAAAAGTAATTGAGCACCTCCTC  
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCTGTCTTCCAGCAGTTGAGTTCTAGGGCAGGG  
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG  
GGGTGGGATGTGTGATTGAATTGAGGGCCACACTGCCAGGTGCTGCTCCGTCAAGGGGTGAGCAGGAGCAAC  
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCAGATGCAAAGGCCCTGAGCCAGGATGTGCTGCAAT  
AAGGGCCACTGAGGGGACAGTGTAGGTTGGGGGTGAGGAATGTATTAAGATGAGATTGCCCTCTAGTTTGTA  
TAGTTCTTTTTTACATGTAAATCAGCCATTGGAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA  
CATATATCCTAGTAGCACTTACTGAAATTCACAGTCAGAGTGGCAGTTGCCTCTGAGGGAAGGTGGGTGGCAGGG  
ATCAACTGAGGAGGAGACACAGAAATGTCCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA  
GGTGTAGAGATTTGTCAGAGCTCATGTAGTTGTAGTCTTAAGGCCTGTGCATTTCACTGCGTGGGTACTCAATT  
TATAAAGCAAAGCCCTTACACTTTTGAGATGCCACCTTTTATGCACTAAATTTCCATGTTTAAATGGGTTATAT  
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCATTCCCTACAGTAGCTTAATAGAAAGGCTTG  
TGACACATTGTATATCTGTTCTTTGTTTTCTTTGTTTTTTTTTTTTTTTTTTTGGAGATGAGTCTCATTCTGT  
TGCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTACTGCAACCTCCGCTCCAGGTTCAAGCCATTCTCATG  
CCTCAGCTTCCCCAGTAGCTAGGATTACAGGTACGCACCACGCCAGCTCATTTTTGTACTTTTAGTAGGGA  
CGGGGTTTCATCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCTCCCAAA  
GTGCTGGGATTACAGGCATGAGCCACCGCGCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG  
CTTTTCTTTTCTTTCTTTCTTTTGTAGACAGAATCTGGCTGTTTCCAGGCTGAAGTGCAGTGGCATG  
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT  
ACAGGCACCCACCACCATATCTGGCTAATATTTGTATTTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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**FIGURE 5391B**

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC  
CTGTCTCAGTAAATTTTTTTTCCCAAACCTAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAACATG  
CACAGATGGTAGTTTTACTGGTGTTCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT  
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCAGCTTTCCTCCTGCCCT  
GGCTGCTGTTTCCCAGCCTTTCCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCCTCCTCCT  
CATCACAGTTCCTCAGCCCCACCTTCAACTGAACCTCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG  
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTAAATTTTTGAGATTCTACCTTATATTTTTGAAT  
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTGTAGTAAATGAAAAAGATAA  
CAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTTC  
TCTTTCT

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**FIGURE 5392**

MELAQEARELGCVAVEEMGVPVAARAPESTLRRLCLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSPQVR  
RKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQQHTLRDPMQRL  
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRGS LPTPHDDHFGTSYQ  
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDTAISRPQAPDQSDSSQTLPSMVHLIQEGWRT  
VGVLSQRSSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLILGLRRCCLWTELKALHDQSQELQDAAGHRQLL  
LRELQAKQQRILHWRQLVEETQEQVRLLIKGNSASKTRLCRSPGEVLALVQRKVPTFEAVAPQSRELLRCLEEE  
VRHLPHILLGTLLRHRPGELKPLPTVLPSIHQLHPASPRGSSFIALSHKLG LPPGKASELLLPAAASLRQDLLLL  
QDQRS LWCWDL LHMKTS LPPGLPTQELLQIQASQEKQQKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG  
QAALSEELCQGLSLPQWRLRWVQAQ GALQKLCS

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**FIGURE 5393**

GGCACGAGGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGATC  
CCCGCGCGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAAGTGCTTCGCTCTTGCCCTACTT  
CCCCTACTTCATCACCTACAAGTGCAGCGGCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGT  
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATCTA  
TGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG  
GAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG  
CTGCATTCCCCTATGGGTCGGAGCCCCGGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAA  
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT  
CCGGCCAGCTGTCCTCCTGCTGATGTTCCCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG  
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT  
GTATGTCGCCGTTGTCAATGTGCACTCCTTAGGCTTGGTGTCTCAGACATTGATGTACCTTTCCCTGCCTCGCTC  
CAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5394**

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAPFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS  
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS  
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVNVHS

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**FIGURE 5395**

ATGGCCGTTGCCAGCTTGCCTTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTGGTCCTGGTGCTT  
GATGGTCGAGGCCATCTCCTGGGCCGCCCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG  
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCCTACCACTTCCGGGCCCCC  
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT  
CTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC  
CTGTGGCGTCCATGA

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**FIGURE 5396A**

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA  
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTG  
TCTCAAAAAACAAACAAGCAAAAATCAAAAACATTGTTTCAGATCTTATTTTCTATTGACCTAAGAGTTA  
TTTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGTGTTTCTTTTAATTTTATTATTAATTTCCAGTTTT  
AGTAGAAAATGTCTATATAATTTCAACCTTTTTTTTTTGTCTAACCTCTAGTTTTGTGTCTAGATTTTCAGCTTTTT  
AATAGAGACCACCTTATCATAATGAAAACCTCATCCTGTTTCTCTCTCATACACAACCTCATTTCAGCTTGATAGAT  
TTTCCTCTGGCTGTTCTGTTGTCTGGCTTGCCATCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT  
TCACATTTCAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG  
TCTTTTTGTGCCATGAATTTTATAAGAATTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA  
CACATTTCTTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAAGGAGAAAACTGAGCAATGGGAGGAA  
AGAACAAAACAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA  
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAGAAAAAGTTACCCATAGCTATGTGAAGGGGCAATGGGCAG  
TGCCTGCTAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTGTATT  
TAGCTGGGCTGCCCTGGATGAATAAAGAGAATATTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG  
ATACATTTAGAACAAGTATGTAGCTATGGGAATTAATGAGTAAACCTATTATATGCTTAGCATTTATTACTTA  
ATGTAGCGTTAACTAGGGATTGTTTCTGTCTTGAGGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG  
AAGTTAATAATATATAATTTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA  
GGTACTATCAATAGGGTCAACCTTAAAGGAATGACTTTTTAATCTAAGATCTCAAGATGAAAGGAGCCAGCCATG  
CAAAGAGCCCAATCAGGAGATTTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG  
ACATGTGAGGTCTGCAAGGAGGCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTGAGATCATATGATGTAGGT  
AAGCAGAGGCCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAATTTAAGTAT  
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT  
GATCCAGGTGGTTTGGGTGGTGTCTAAACCTCAGTGTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA  
ATATGAGAACCCTGACTTAAATGTTTACTTTCATCACCAATCTTGCTATTTTGTATGAACTCTCATTTTCTCTG  
ATGTTCCCTTTGGCTTTTTTTTTTCTTTCCAAATTGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTG  
TTGTCTTTTATTCTACATTAGAAATGTTGCTTCTTTTAGTAAAGAAAAACAGCATGTGTTTGCTTTCTGTGTTT  
ATTTTAGATTGGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC  
CAGTGGAAGATAATGGAAGAATTGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA  
GGAAAAATTGAAGGACAGGAGAGACCTCAAGAAGGATACCTCAGTAGTGTGAAAATGCCATCTGAAAAGGTGTCC  
TCTTACCAGAAACGCACATCTGTTACTCCACATCAGAGACTTCATTTGTTGATAAACCTATGAATGTAAGGAA  
TGTGGGAAGGCGTTTCAGAGTGCGCCAACAGCTTACTTTTCATCACAGAATTCATACTGGTGAAAAACCGTATGAA  
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAA  
CTCTATGAATGTAAGGAATGTGGGAAGCTTTTCATATGTGGTGCAGATCTTAGAGTACATCAGAAAATGCATATT  
GGTGAGAAGCCCTATGAATGTAAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTACTCTGCATCAGAGG  
ATTCATACTGGTGAGAAACCTATGTGTGTAAGAGTGTGGAAGGCTTTAGACAGTACGCACACCTGACTCGG  
CATCAGAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAAGAATGTGGGAAGGCTTTTGTGTGGCTCTGGT  
CTTAGAGTACATCACAACCTCATACTGGTGAGAAACCTATGAATGTAAGGAATGCGGGAAGGCTTTTAGAGTG  
CGACAACAATAACACTCCATCAGAGAATTCATACTGGTGAGAAACCTATGAATGTAAGGAATGTGGAAAGACC  
TTTAGCCGTGGTTATCATCTTATTCTCCATCAGAGAATTCATACTGGTGAAAAACCTACGAATGTAAGGAATGC  
TGGAAAGCCTTTAGTCGCTACTCACAACCTATTTTCATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT  
AAGGAATGCGGGAAGGCTTCAGACTACTTTTCAACCTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT  
TATAAATGTAAGGAATGTGGCAAGGCTTTAGATTGCGCCAAAACTTACTCTACATCAGAGCATTCTACTGGC  
GAAAAACCTTTGAGTGTAAGGAATGTAGGAAGGCTTTAGACTTAATTCATCCCTTATCAACATCTGAGAATT  
CATTCTGGTGAGAAACCTATGAATGTAAGGAATGTAAAGGCTTTAGGCAACATTCACACCTTACTCATCAT  
CTGAAAATTCATAATGTAAAAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA  
ATTAATCTATTTTGCTCCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAGAGTGTGACAATG  
TATTGTAGTCCATCATCACTCAAACCTGAACTTCAGCATATTTGTTCTAAAACTAATCCTGTTATAAGAATGA  
AAAAGACATTTACCGTCATCCCTATCCCATCACTTGTGTCTACTGGACAAGACGCTTAAGTCTCTGTGCTAT

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**FIGURE 5396B**

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC  
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT  
GTGCTGGTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAAGTGTCTTGTACAA  
AGTCTGGCTACTTTGCTGAAGAGACCACATGAAGAGGCCCTGAAACTACGTAGAGAGGGAGAGGCACCTGCTGAA  
CCCTGTCTTCTTGACATCCACCAAGATAACCAGACATTTGAGTGAAATTTTGGATCCACCAGACCAGCCACCAGCT  
AAATGCCAGTGAGCGACTTGGTAACCTGAAGTATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCTGGC  
CCAAATTTCTGACCCACAAAAACATGAGATATAATAAATGGTTGTTGTTTTAAGCCACTAAACTTTCTTTTATT  
ATCATACTAAATATTTATTTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCCTCCAC  
CAACATTTAATCTTCATTGAAGTGTGAGATATCTTATCTCGTTAAATATTGAAAGTAAGGAATTCCTTTCCAGT  
TTGTTTCATTAATAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCTGTAAATCCAGCACTTTGGGAGGCCA  
AGTAAGGACGATTGCTTGAGGCCAGAAGTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA  
AACTTTAAAAATTAGCTGGGCATAATGGTGCATGCCTGTAGTCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT  
TTGAACCCAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCTT  
GTCTCAAAAAAAAAAAAAAACTACAATCAGTATTCTCTGGCCCCAGTCAATATTAAAAATTGACAAAGGATAACA  
TGAAACTTTGGAAATTAAGTACCTGTATTATGAAGCCCCATTAATTTTTTAACTACTTCATTGTTTTTTAA  
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC  
TCCAACCTTTGAGCTTTTTTTTTTCCTGAACCAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC  
AAATAAAGGAAAAGAATGGAATATTTACCTTGCCATCCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT  
GAAGGAAAGTTGTTGATTAGAGAATTTCAACTGGTTAAAAGGTCAAAGGAGGCCAGGCGGGTGGCTCAAGCCTG  
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTGAGGAGATCAAGACCATCCTGGCTAACACGG  
TGAAACCCCATCTCTACTAAAAATACAAAAAATTCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA  
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCAAGTGAAGCCGAGATCGCGCCACTGCACTC  
CAGCCTGGGTGACAGACCGAGACTCTGTCTCAACAAAAAACAACAAAAACAACAAAAAGATCAAATGAATG  
ATAGAATTTGAAAACTACGCTCTTTAATTTTACAAATCATGGATTTTCGTGGTGATAGCAATGGATGCGAAGAC  
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT  
CTAAATGAGATCAGCCAGATGAAGTTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTCTTGG  
CTCCCCAAAACCTGAGAAGTACAAGTTAGTCTCCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAAG  
AACAAATTAACAACACAAAGAAGCAACAACCAATGCACAATTTGGGAAATCTGCAGAAGTAATGGCCTAGTT  
TTTTAACCAATACATGTC



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**FIGURE 5397**

MLLLLVKENS MCLLSCFILDLET KYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER  
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKECGKAFRVRQQLTFHHRIHTGEKPYECKECGMAF  
RQTAHLTRHQRLHSGEKLYECKECGEAFICGADLRVHQMHIGEKPYECKECGKAFRVRGQLTLHQRIHTGEKPY  
VCKECKKAFRQYAHLTRHQKLN SADRLYECKECGKAFLCGSLRVH HKLHTGEKPYECKECGKAFRVRQQLTLHQ  
RIHTGEKPYECKECGKTFSRGYHLILHHRIHTGEKPYECKECWKAFSRYSQLISHQSIHIGVKPYDCKECKKAFR  
LLSQLTQHQS IHIGEKPYKCKECKKAFR LRQKLT LHQSIHTGEKPFECKE CKRKAFR LNSSLIQHLRIHSGEKPYE  
CKECKKAFRQHSHLTHHLKIHN VKI

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**FIGURE 5398**

TGGATGGTGAACCCCTGATTCTGAAGTCGGTGTCTGCTGTGTTCATGGCAGGATTCGGTTAGGAGGAACAGCACAG  
CATGCTGGGCTCTGGATTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACATT  
GGAGGAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA  
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG  
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAA  
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAG  
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAACGTGTAATGACAGTTTA  
AGGCCCTCGCTTAGTTGTACTGGATTCTCAGGGAGTCCTCTGTGGCCTTTTGCTCTGAGTGCTGTTTCCCTTGTAC  
CAGAGGGCAGCACCATGGAAATTCTGTTTTTCTGTAGCATATTGT

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**FIGURE 5399**

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCCTCCTCTGCAGCAGGAGGCAGAGCTG  
TGGGATGAATGAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA  
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTTCAG  
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCACGCCCCATG  
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC  
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG  
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC  
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTCATCACCTACGTTTTGG  
TGGCTGGTCTTGCCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG  
CCTGGCTGACCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA  
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCCTCATGGGCCTGCTCTTCGGGA  
AGATTGGCTACTACCTGGTGTGGGCTGGTGTGCTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA  
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA  
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGCAGCGCGCCGCTGA  
ACCTCCCGCTGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT  
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCAGCCCCGCCCCCAACCAAGGTGCTGAGA  
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCCCTGATGGGCATGG

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**FIGURE 5400**

MRFARSPLPILGPQLLLTLFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAASPTPHAAF  
LADPVSNMAMAYGSSLAAQGKELVDKNIDRFIPITKLKYYFAVDIMYVGRKLGLLFFPYLHQDWEVQYQQDTPVA  
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDL  
VAFLGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV  
AAQPMMLMYWLTFLVR

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**FIGURE 5401**

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCGCGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA  
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTCGACTCAA  
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCCG  
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCCA  
GCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA  
CCTCCTCTCCTGCTGTGCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT  
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT  
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA  
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC  
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAATACTACTACAGTTTGGCCAG  
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAAGTGGCCAAACAGGTCATCGAGTATGCCCCGCA  
GCTGGAGATGATCGTCTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA  
GGGTTTCGCCCAATAAAGGTGGACTGAC

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**FIGURE 5402**

MYEQLKGEWNRKSPNLSKCGEELGRKLVLLELNFLLPTTGKLTQQLILARDILEIGAQWSILRKDIPSFERYM  
AQLKCYFYFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK  
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF  
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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**FIGURE 5403A**

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCGCCCCAGCCCTCCCGCCCAGCCCG  
CAGCCCCCTCCCTCTGTTCCCCGACCTCAGACCCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCGA  
AGACGAGGTCCAGTTCTGCGGACGGACGATGAGGTGGTCTGCAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT  
CAAGCTCTGCCTGGCCGCGAGGGCTTCGGCAACCGCCTGTGCTTCCCTGGAGCCCACTAGCAACGCGCAGAATGT  
GCCCCCGCATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC  
TAACACGGTGGAGGCTGGCGTGGAGTCATCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT  
GCTCCGGCATGCACACAGCCGCAIGTATCTGAGCTGCCCTACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT  
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCCTCCAAGCAGAGGTC  
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCTTGTTCAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC  
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG  
CTGCGAAGAGGGCTTCGTGACGGGAGGTCACGTCTCCGCTCTTTTCATGGACATATGGATGAGTGTCTGACCAT  
TTCCCCTGCTGACAGTGATGACCAGCGCAGACTTGTCTACTATGAGGGGGAGCTGTGTGCACTCATGCCCCGCTC  
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG  
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGAGCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA  
CACCAAGGCTACCTCCTTCTGCTTCCGCATCTCCAAGGAGAAGCTGGATGTGGCCCCAAGCGGGATGTGGAGGG  
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC  
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGCGCTGCTCAAGAAGAAGGCCATGTGCAACAGGAGGGCCA  
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCGCGATGATCCACAGCACCAA  
TGGCCTATACAACCAAGTTCATCAAGAGCCTGGACAGCTTCAGCGGAAGCCACGGGGCTCGGGGCCACCCGCTGG  
CACGGCGCTGCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA  
CTTGACAGCAGGAGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT  
GCTCTCCATGGTCTGAATTGCATAGACCGCCTAAATGTCTACACCACTGCTGCCCCTTTGCTGAGTTTGCAGG  
GGAGGAGGCAGCCGAGTCTTGGAAAGAGATTGTGAATCTTCTCTATGAACCTCTAGCTTCTTAATCCGTGGCAA  
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGGACTGGCTGGTCAGCAAGCTGGATCGGCTGGAGGCCCTCGTC  
TGGCATCCTGGAGGTCTGTACTGTGCTCCTCATTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT  
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCCTGGACGTGCTATGCTCCCTGTGTGT  
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTGCTGCTGGCCGTGAGCTTCTGCT  
GCAGACAAACCTCATCAACTATGTCAACAGCATCCGCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA  
GTACAGCAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG  
GGTGGGCTGGGCCCTCACCAGGGCTACACCCCTACCCTGGGGCCGCGAGGGCTGGGGCGGAACGGGGTGGG  
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACACGTGGCACGCCCAGTGACTTCCCC  
AGGGCAGCACCTCTGGCCCCCTGAAGACGTGATCAGCTGCTGCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG  
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGAGCTT  
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCGCCATGGTGAATTCAGTTCTGCCCCACCTGGCTA  
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG  
GCCCCGGGGGCTCACCTGGTGGGCCCCAGTCGCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC  
TGTCAGATTGTCTGCGCCCCCATCTGGAGCGCATTCGGGAGAAGCTGGCGGAGAACATCCACGAGCTCTGGGC  
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTCTGGGATGACAACAAGAGGCTGCACCCGTGTCTGT  
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAATAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT  
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGCGGAGGACAACCTGAAGAAGACAAAACCTCCCAAGAC  
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGACCGGCTGACCGCGGCGACAGC  
ACTGGTGGACGCTCTGGCAGAAAATGGGCACAACGTGTGGGCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG  
CGCAGTGGAGACATCCCAGCGCGCGAAACCTCGGCTGGTGCCCTACCGCCTGCTGGATGAAGCCACCAAGCG  
CAGCAACCGGACAGCCTCTGCCAGGCCGTGCGCACCTCTGGGCTACGGCTACAACATCGAGCCTCTTGACCA  
GGAGCCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGCGCATCTTCCGGGCAGAGAAATCCTATACAGT  
GCAGAGCGCGCTGGTACTTCGAGTTTGAAGCAGTCAACACAGGCGAGATGCGCGTGGGCTGGGCGAGGCCCGA  
GCTGAGGCCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGCCAGCGCTGGCA  
CTTGGGCAGTGAACATTGGGGCCCCCTGGCAGCGGGCGATGTCTGCTGTATGATCGACCTCACAGAGAA

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**FIGURE 5403B**

CACCATTATCTTCACCCTCAATGGCGAGGTCCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA  
GATTGGGGACGGCTTCCTGCCCCTCTGCAGCTTGGGACCTGGCCAGGTGGGTCTATCTGAACCTGGGCCAGGACGT  
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCC  
AGTACCACCTGGTTCAGCAAAGGCTGCCCCAGTTTGAGCCAGTGCCCCCTTGAACACCCTCACTATGAGGTATC  
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAGAACAGCCT  
GGTGGAGATGCTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCACCAGCACTTCCGCTGCACTGCAGGGGCCAC  
CCCGCTGGCACCTCTTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCGGGCGGCGGAACCCGACCCTGACTACGA  
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCGAGAAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC  
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA  
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTGCGCCATGATGACCCAGCCACCGGCCACCCACGCT  
GCCCCGACTCCCTCAGACGTGGTGCCTGCAGACAACCGCGATGACCCCGAGATCATCTCAACACCACCACGTA  
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCAGCTGCGTGTGGGCGGGCTGGGTCACCCCCTGACTACCA  
TCAGCAGCATGAGCTTCGACCTCAGCAAGGTCCGGGTGCTGACGGTGACCATGGGGGATGAACAAGGCAACGT  
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCCGGCAGCAGGGCCG  
GATCAGCCACACGGACCTTGTCAATTGGGTGCGCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG  
CAAAGAGAGCAACACCTTTTCCAGGTGGAACCCAACACTAAGCTATTTCTGCCGTCTTCGCTCTGCCACCCA  
CCAGAACGTATCCAGTTTGAGCTGGGGAGCAGAAGAATCATGCCGTGTGACCGCCATGTTCCAAAGCGA  
GCGCAAGAACCCGGCCCCGAGTGCCACCCGCGGCTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT  
GCCCCAACCACTTCTGCAAGGTGGAGACGAGGCGTGCCGGCGAGCGGCTGGGCTGGGCCTGTCAGTGCCAGGAGCC  
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCTTGA  
CCTGCAGCGCTTCCACTCGCACACCCTGCGCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA  
CGCTCTGTGACGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCCACTGCG  
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCCTGCCGAGCCGCGCTCCATGCTCTCTGA  
ATACATCGTGCCCTCAGCCTGAGACCCGCGCCATCAGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA  
CCCCCGCATGGCCTGCCGGGAGTTGGAGTCAACCACTTCGTGAGGCCCCCGCATATTTCTGCCCCCTGT  
CGTGGCCCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCGGCCGCTCAGCCCTGCCATCCCGCTGGAGGCCCT  
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGGGCAGCACGCTCGCGACCCCGCTCGGGG  
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGTGGTGATGGGCATCTTTGGCGATGA  
GGATGTGAAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA  
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAAACAGCACAGGAAAAGGAAGATGAGGA  
AAAAGAGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGGAGGAAGGGCTGCTCCAGATGAAGTTGCC  
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC  
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACAGCGGAGCCGCTATGGCCTCCTCATAAA  
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAACAGATCAA  
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTCGACAGGATTGCT  
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTACAGTAGATGGAGAGGAGGAGGAACAGAGGAAGAGAC  
CACCTTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAGTGC GGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA  
GGAGCGGTGACGAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGGCTGGGCCCA  
AGAGGACTTCGTGACAGAGCCCCGAGCTGGTGGGGCCATGTTACGCTCCTGACCCGGCAGTACGACGGGCTGGG  
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTACCGTCCCTCCGTGGAAGACACCATGAGCCTGCTCGA  
GTGCTCGGCCAGATCCGCTCGCTGCTCATCGTGCAGATGGGCCCCCAGGAGGAGAACTCATGATCCAGAGCAT  
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT  
CATGGAGGTGATGGTCAACGTCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCAAGATGGTGACAAGCTG  
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACAGCGCTCCATGTTTGACCACCTGAGCTACCT  
GCTGGAGAACAGTGGCATCGGCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCTCCGTATTGA  
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTTACCTGGCAGGCTGTGGCCT  
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT  
GGACTTCTGCGCTTGTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGGCGCTGCT



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**FIGURE 5403C**

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA  
GGCCATCCGCATCTCCGAGGACCTGCGAGGGATGGCCAGGCATCCGCAGGGACCGCGGCGCGAGCACTTTGG  
TGAGGAACCGCCTGAAGAAAACCGGTGCACCTGGGACACGCCATCATGTCCTTCTATGCCGCCCTTGATCGACCT  
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT  
CCGCTCCCTTGTCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATCCCAACCCTGGGCAAGA  
TGGGGCTCTGGTGCAGCCAAAGATGTCAGCATCCTTCGTGCCGACCACAAGGCGTCCATGGTGCTCTTCTCTGGA  
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGTGTCACGTGCTGGACGTGGGGTTCTTCCCCGACATGAGGGC  
AGCCGCTCGCTGGACACGGCCACTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCITGGC  
CGTGCTGCCGCTCATCACCAAGTGTGCGCCGCTCTTTGCGGGACAGAACACCGCGCCATCATGGTGGACTCTAT  
GCTGCATACCGTGTACCGCCTGTCTCGGGTCTGTCGCTCACCAAGGCGCAGCGTGACGTCATCGAGGACTGCCT  
CATGTGCTCTGTCAGGTACATCCGCCCCTCGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTGACGTCGCCAT  
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT  
ACCCACGGGCTGGGCCAACTTCGGGGTCACTCAGAGGAGGAGCTGCACCTCACACGGAACTCTTCTGGGGCAT  
CTTTGACTCTCTGGCCCATAGAAATACGACCCGGAGCTGTACCGCATGGCCATGCCCTGTCTGTGCGCCATTGC  
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGATGCTGA  
AGGCAACTTTGATCCCCGGCCTGTGGAGACCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA  
GTTTGCGGAGTACACACACGAGAAGTGGGCCTTCGACAAGATCCAGAACAAGTGGTCTATGGAGAGAACATAGA  
CGAGGAGCTGAAGACCCACCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG  
GCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA  
GAAGACGGAAAAAGAAAAAACGCGGAAGATATCACAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC  
TCAGCCCCCGACCTTAGTGCTGTTACCTGTCCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAATTA  
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC  
CTACGACACGCTCAGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT  
GAATGGCTACGCGGTTACAAGAGGCCTTAAGGACATGGAACCTGGACTCGTCTTCCATTGAAAAGCGGTTTGCTT  
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCACCTGGAGGCTGTGGTCAG  
CAGTGGGCGAGTGGAAGTCCCCACATGAACAGGAGATTAATTTCTTTGCCAAGATCCTGCTCCCTTTGATCAA  
CCAGTACTTCACCAACCACTGCCTCTATTTCTTGTCCACTCCGGCTAAAGTGTGCTGGGCAGCGGTGGCCACGCCTC  
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAACTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCTT  
TGGGACAGACGCCCCAGCTGTGGTCAACTGCTTTCACATCCTGGCCGCTCCCTGGATGCCAGGACAGTGATGAA  
GTGAGGCCCTGAGATCGTGAAGGCTGGCCTCCGCTCCTTCTTCGAGAGTGCTCGGAGGACATCGAGAAGATGGT  
GGAGAACCTGCGGCTGGGCAAGGTGTGCGAGGCGGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC  
CACTGTGGCACTGCTGCCGCTCCTCACCACCTCTTCCAGCAGATCGCCAGCACCAGTTCCGAGATGACGTCAT  
CCTGGACGACGTCCAGGTCTCTTGTACCGAACGCTGTGCGAGTATCTACTCCCTGGGAACCACCAAGAACACTTA  
TGIGGAAAAAGCTTCGGCCAGCCCTCGGGGAGTGCTGCGCCGCTGCGCAGCAGCCATGCCGGTGGCGTTCTCTGGA  
GCCGACGCTGAACGAGTACAACGCTGCTCCGTGTACACCACCAAGTCTCCGCGGAGCGGGCCATCCTGGGGCT  
CCCCAACAGTGTGGAGGAGATGTGTCCCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC  
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCTGTGTCAGATCACGCTGCCATGCTATGCAGCTACCTGCC  
CCGATGGTGGGAGCGCGGGCCCGAGGCACCCCTTCCGCCCTGCCCGCGGGCGCCCCCACCCTGCACAGCTGT  
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC  
CTCCTGGATGAAGCGGCTGGCTGTGTTTCGCACAGCCATTGTGAGCCGTGCACGGCCGGAGCTCCTGCAGTCCCA  
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA  
GGCCAAGGCGGAGGCCCAGGAGGGCGAGCTGCTGGTGGGGACGAGTTCTTGTGCTCTGCCGGGACCTCTACGC  
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCACGCGGGA  
GGAGCTGTTACAGGATGGTGGGCGAGATCTTCTACTGTTCCAAAGTCCCAACTTCAAGCGCGAGGAGCAGAA  
CTTTGTGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG  
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC  
GTCAGTGTGCTGGCCACACTGAAGAAGATGCTGCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT  
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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**FIGURE 5403D**

TCACCTTCAGGGAAGGTCTGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCCG  
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA  
CCAGACCGAGCACCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT  
CGTGGCCTGTTTCCGTATGACGCCCTGTACAACCTGCCACGCACCGGGCATGTAACATGTTCTTGGAGAGCTA  
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAAGCTGGGGA  
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCTGCACCAGTTGGTCTTGCACCTTCAGCCG  
CACTGCCCTGACGGAAAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG  
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT  
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGCTGCAGATGAT  
CAGTGCCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG  
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA  
GGCACTGATGCAAACATGCAGCGTCTTGGATCTCAATGCCCTTTGAGAGACAGAAACAGGCCGAGGGGCTGGGCAT  
GGTGAATGAGGATGGCACTGTATCAATCGCCAGAACGGAGAGAAGGTATGGCGGATGATGAATTCACACAAGA  
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCAGAACTACCTACGGACACAGACAGG  
GAACACGACCACTATTAACATCATCATTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT  
CTACTGGTACTACTCGGGCAAGGATGTCATTGAAGAGCAGGGCAAGAGGAACCTTCTCCAAAGCCATGTCGGTGGC  
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGTCCTGCACCGGGAACCAGCAGAGCCTGGCGCACAG  
TCGCCTATGGGACGCGAGTGGTGGGATTCTTGCACGTGTTCCGCCACATGATGATGAAGCTCGCTCAGGACTCAAG  
CCAGATCGAGCTGTGTAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTATGTTGCTGTGCTACTAGAAGG  
GAACGTGGTGAACGGCATGATCGCCGGCAGATGGTGGACATGCTCGTGAATCCTCATCCAATGTGGAGATGAT  
CCTCAAGTTCTTCGACATGTTCTGAACTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA  
TCCCGGTGGCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTCAGCGGTCCAGAAAT  
CCAGTTCTGCTTTTCGTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTCGCCAACCGCTTCCA  
GGAGCCAGCAGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTTCGGAGCATGTGCCGCATGACCC  
TCGCCTGCACAACTTCTTGGAGCTGGCCGAGAGCATCTTTCGAGTACTTCCGCCCTACCTGGGCGCATCGAGAT  
CATGGGCGCGTACGCCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC  
CCAGGTGAAGGATCCCAAGCGCCAGTTCACTTCGAGCTGGTGAACGAGGGCGGCGAGGCTGAGAAGATGGAGCT  
CTTCGTGAGTTTTCGCGAGGACACCATCTTCGAGATCGAGATCGCGCGCAGATCTCGGAGCCCGAGGGCGAGCC  
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGGCGGCGGCGGCGGAGGCGGCGGAGGAGGGCGGGGCT  
CGAGGGCACGGCGGCCACGGCGCGCGGGGGCGACGGCGCGGGTGTGGCGGGCGGAGGCGGGGCGGCTGCGAGG  
CCTCAGCTACCGCAGCCTGCGGCGGCGCGTGCAGCGGCTGCGGCGGCTTACGGCCCGGAGGCGGCGCCAGT  
GGCGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCGGCTGGCGCGGGGGCGGCGGGCGCGCTGGGCCT  
GCTCTGGGGCTCGCTGTTTCGGCGGCGGCTGGTGGAGGGCGCCAGAAGGTGACGGTGACCGAGCTCCTGCGAGG  
CATGCCCCACCCACCAGCGACGAGGTGCACGGCGAGCAGCCGGCGGGCGGCGGAGACGCGAGACGCGGAGGG  
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCGGGCGGG  
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCCCTTCCGGCCCGAAGGGGCTGGCGGTCTCGGGGACAT  
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCCATCCTCAAGAGGAAATTGGGGGTGGATGG  
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCGAGCCGGAACCCAGAGCTGGAGCCGGAGAAAGCCGATGCCGA  
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACCAGAGCCCCCAAGAAGCAAGCACCTCCCTCACCCCTCC  
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGCAGAGGTGAAGTTCTGAACTACCTGTC  
CCGGAACCTTTACACCTGCGGTTCTTTCCTTCTTGGCATTTGCCATCAACTTCATCTTGCTGTTTTATAA  
GGTCTCAGACTCTCCACCAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTGAGGTGCAGGCTCTGG  
TGGCAGCTCTGGCTGGGGCTTGGGGCGGAGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT  
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGTTGGCCTTTCT  
CTGCATCATTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCT  
GGAGTTTGATGGCCTGTACATCACGGAGCAGCTGAGGACGATGACGTGAAGGGGCGAGTGGGACCGACTGGTGCT  
CAACACGCCGTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCTGACAAACATGGGGACAT  
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCACAATGAGCG

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**FIGURE 5403E**

CAAGCCCAACCCGCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG  
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA  
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCCTCTGTCAC  
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCGTCTACCTGTACACCGTGGTGGCCTT  
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC  
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG  
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTCATCGTCATCCTGTTGGCCAT  
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC  
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA  
GGAGCACAACCTGGCCAATTACATGTTTTTCCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA  
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA  
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA  
AGCCCCCTTAGTCCCCAAGCCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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**FIGURE 5404**

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG  
TTTCCGTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAGTGTTAGCCTCCAGCCCTG  
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT  
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA  
TCTGGAAGCCAACCTGGCTGCTCCTGAAGCTGTACCAAGTTCAACCCAGCCTTCTTTCAGACCACGGTCACCGCCCA  
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGCATGATCGACCAGGCACA  
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG  
GCAAGCCCTGGATGAAAACATGGACCTCTTGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG  
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCTGGACAG  
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA  
AGAGAGCATTAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA  
GTAACCTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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**FIGURE 5405**

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT  
NLPHTDFTLCKCMIDQAHQEERPIRQILYLGDLLETCHFOAFWQALDENMDLLEGITGFEDSVRKFIHVVGITY  
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESEIKPKNIVEKIDFDSVSSIMASSQ

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**FIGURE 5406**

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCAGGGGCATCCGCCCTGGCACGGTGCTGAG  
AATTCGCGGCTTGGTTCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA  
TGCCGCCCTGCATTTCAACCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG  
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA  
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT  
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTAGAGCAGAAGCCCAGGCGGGCCCGGGGCC  
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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**FIGURE 5407**

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLGEEQGSDAALHFNPRLDTSEVVFNNSKEQGSWGREER  
GPGVPFQRGQPFVLIITASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGDDVQLDSVRIF

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**FIGURE 5408**

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG  
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA  
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTGCGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG  
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA  
CGGCTTCAAGGCCGTGGTTGGGGACGCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT  
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCGGGGCC  
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC



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**FIGURE 5409**

GTGTTGIACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC  
CATTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT  
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCCCTCTCACC  
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTCTGAGGGAGGAGCCGCTGGTG  
GAGAAGCAGACATGGACTTCCTGCGGAATTATTCTCCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC  
TGGACGAGCTGACCTTGGGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTTGGTGG  
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA  
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTTCTTCGCCC  
TCGCCAAGGAACTCTATCCTGGGCAGTTCAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG  
GGCTACTCTGCGCTGTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG  
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA  
TGAAGAGAAAGATCTTCTCTGAGGTGACGCCAAGTGTAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT  
TTTTTGGTGAGAGCCTCCCAGCGGTTTCTTCTCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG  
TCATGGGTACCTCCTTGCAAGGTGCAGCCCTTTCGCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC  
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT  
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC  
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG  
GGGTCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG  
AGAGGGAGAAACCCAGTGACAGCAGCTGCATCTCCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC  
CGGGCCTGGCCCCCTCTTAACAGCAGTTCTGTCTGGGGAGCTCAGAACATCCCCAATCTCTTACAGCTCCCT  
CCCCAAACTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT  
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG  
CCCCACGGGGCCAGGGCTACCCAGAACTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCACTCTGTCTC  
CTGCCCCGGGGGCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC  
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG  
GGCCCCCTTCACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC  
AAAAACAATAAC

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**FIGURE 5410**

MAEPDPSPHLETQAGKVQEAQDSDSSEGGGAAGGEADMDFLRNLFSQLSLGSKERLLDELTLEGVARYMQSER  
CRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY  
FMRLKDKGLLLRCYTNIDTLERIALGLEQEDLVEAHGTFTYTSCHVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ  
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGTSLOVQPPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI  
MGLGGGMDFDSSKAYRDVAWLGECDQGCLALAEELGWKKELEDLVRREHASIDAQSGAGVNPSTSPKKSPPP  
AKDEARTTEREKPQ

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**FIGURE 5411**

CGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG  
GTGCCGTACAGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGTGACGGGAC  
AGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTAGACTC  
TGAGGGAGGAGCCGCTGGTGAGAGAAGCAGACATGGACTTCTGCGGAACCTATTCTCCCAGACGCTCAGCCTGGG  
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTG  
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGAGGCATCCCCGACTTTCGCTCTCCATCCACCGG  
CCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACA  
TCCGGAACCCCTTCTTCGCCCTCGCCAAGGAACCTCTATCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT  
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGG  
GCTGGAACAGGAGGACTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA  
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCT  
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCT  
GAAGGTGGACCTCCTCCTGGTCAATGGGTACCTCCTTGAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACC  
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTCTGCGGATGATTATGGG  
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG  
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGAGGGAGCACGCCAGCAT  
AGATGCCCAGTCGGGGGCGGGGTCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAA  
GGACGAGGCCAGGACAACAGAGAGGGAGAAACCCAGTGCAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTC  
AGGGACAGCTGAGCCCCAACCGGGCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCC  
CCAATCTCTTACAGCTCCCTCCCCAAACTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAACTCTCTAACA  
CCTCCTAGAGGCCAAGGCTTAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA  
ACCTCCCTCATCTCTAACTGCCCCACGGGGCCAGGGCTACCCAGAACTTTAACTCTTCCAGGACAGGGAGCT  
TCGGGCCCCACTCTGTCTCCTGCCCCGGGGGCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGG  
TGTGGGCTCTGAATATAACCCACACCCAGCGTAGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC  
AGCTCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT  
ATTGGAGACAAATTAAAAACAAAACAACCTAACAAAAA

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**FIGURE 5412**

MDFLRNLF SQTLSLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL  
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLRCYTQNI DTLERIAGLEQEDLVEAH  
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGT  
SLQVQPFASLISKAPLSTPRLINKEKAGQSDPFLGMIMGLGGGMDFDSKKAYRDVAWLGECDQGCLALAE LLGW  
KKELEDLVRREHASIDAQSGAGVPNPSTSASPKKSPPPAPKDEARTTEREKPQ

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**FIGURE 5413**

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG  
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC  
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTTGGCCTTTGCTGACTCGTCCGGGGTTCCGGCCCCGGGG  
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA  
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCCAGAAGAGGCCGCACA  
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG  
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGGCGGCCCTGCTGGC  
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA  
GGAGCTTGTTACCTGTACCCACAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA  
CCAGACCCACCCAGACGTGCCCGTTCGGGGATGAGAGCCAGGCTCGAGTGTCCACATGGTCGGAGACAAGCCAGT  
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAAATTGGCGAGAACTCGACATCATCCGTCAGAAGCGCCTGTCCCA  
CGTGTCTGGCCACCGGTCTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT  
CAACAAGCTTCTCCGCCGGGGCTTCACCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTGTTGAAGGCTG  
TGGGATGACACCAATGCCAACCATCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGC  
TGGAACAGCGGAGGTGGGGCTTGCAAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT  
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA  
CTTCACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCT  
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTGGATATGCCACCCCAAGAACTGGG  
CCTCCCCGCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCAGTGC  
TTCCAACATGCACAGACTTCCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC  
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCCGCCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA  
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCTTACCTCGGCACTGATCGGATCACAGCCCCTACCCACGTGCC  
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAAGCTAAGAACCCAC  
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTTGAGTTTCAAGAGACCCCGGACACCTGGGACCTGTGTTGCTGA  
GCCCGTCTGACATCTGTGTTCTTCTGTCAGCTCCACGCCCGGGCCCTGGACCAGGGGTCCACCTCTCCTCT  
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCCTGTTATCATTGAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT  
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTTCTCCTACAGTGCTGA  
GCAAAAAGTCCCCAATAAATGGTCAGGACAAAAA

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**FIGURE 5414**

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLYEYAREGYSALPQLDIERFCACPEEAAHALE  
LRKGELRSADLPAAISTWQELRQLQEIQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV  
HLYPREAQLEEQFYLQALKLPNQTHPDVPVGDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSG  
HRSYYLRGAGALLQHGLVNFTFNKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA  
EVGLAGYFMDHTVAFRDLPVVMVCSSCYRAETNTGQEPRLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ  
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV  
NATACAVPRLLIALLESNQKDGSVLVPPALQSYLGTDRITAPTHVPLQYIGPNQPRKPGIPGQPAVS

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**FIGURE 5415**

AGCTGGATTCAGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT  
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA  
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT  
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTGCGGATCGGTCACTTTTTCTCCTTTCTG  
AGTCTCTTATCCCCTACCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA  
CGTCCCCTAACTTGTGGCCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC  
ACCGCCTGGGGCCCCCAAGCGGCCGCTCGGAAGCTGGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGG  
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGGCTCAGCA  
CTGGCCGCGAGGCCGTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG  
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGAAGTACGACTGTGGCCACGTGCAGA  
AGAAGTGAAGCGCTGGGGGCACAGTGGGCTGGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG  
GTCCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATC  
AGGACCACTATTAAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCTCTGTCAACACCCTTGGCTCCTGTGTT  
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT  
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5416**

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS  
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK



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**FIGURE 5417**

AGCTGGATTGAGCGTGTCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT  
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCTGCGTGCGGGCGAGAGTGGTTGGGGCCCTCGGGAACCCACTCA  
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC  
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCTTAACCTTGTGGCCCAGCTCTGGTT  
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCT  
CGGAAGCTGGGGCCCCACGGAAGGCCGGCCGCAGCTGAAGGGTGTGGTCCTGTGCACGTTTACCCGCAAGCCGAAG  
AAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT  
GGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGGGCGGCCGACCCAGGACCTGCCAGGCGTC  
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGACGGCTGGGGGCACAGTGGGCT  
GGGCGCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA  
GAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATCAGGACCACTATTAAGCCATAGGAGTCCTG  
GGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG  
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA  
AAAAAAAAAAAAAAAA

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**FIGURE 5418**

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPN  
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTIVVRGKYDCGHVQKK

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**FIGURE 5419**

GGGGAGCTTGCGGCACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCGGGGCCACAGCCGGGCCTGGCGG  
GGGGACCATEGGGCGCCTCGGTCTCCAGGGGCCGGGCCGCCCGGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC  
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGCTGAGCCACGTCCCCCGCGCACGCTGCTCGG  
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGGTGCTGATCCTGGCCCG  
CGACCACGGCGCCACCGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC  
TTGCCCCCTGGGCCGCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTGCAACCCCTGCGGCCAAGAAGG  
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAACAGGACAACCGTGCCTGGGGC  
CCCTTCTCAGACGTGCTTCGTGACTTCATTACGTGGTGTGCAAGAAGCAGGTCTTGACCTAGAGGAGGAGGG  
TCTGTGGCCAGAACTGCTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCGACACGACAG  
CGGCTGTATGTACAGACTCCTCGTCCAACCTTCTAGACGCCAACAGACTGTTCTAGATAAAATTCTCTGCTGTGCC  
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTCACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT  
CCGCTTTGTGTCTTTCGAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCGTGTGACCAA  
CTCCAGTGTGATCGTGCGAGTCCGTCTGTCCTAGTCAGCACTACCCCTTCTTGCAAGACAGCCTGACTGTGCCCTT  
CCAGGGCCTGGGACCATTGGCTGGGACCCCTCATTAACCAACCAAGCACTTGTACCTCCCTGGCATACTGAGAAT  
TCCTGGGTCCAAATCAAAGGCCCTGACGGGGCCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC  
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAACCCACAAGTGAGCATGGG  
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCTCTCTTCTCCTCCCAACCAAAACCCCTCCGATCCAGCCC  
CAGGCCCCCTCTGTACCATCCCCCTCCCTCCGCACCACTGACCTCTTGCTCCTGTTGTTTCTGCCACAGGGACTT  
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACTTAGAATCTCATCCTTAGGGCTCAGAGAGTCCCAG  
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT  
ACGTAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA  
GGCGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA  
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA  
GCCCCGGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG  
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG  
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCATCGCTACAAAAATACA  
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTGTG  
CCCAGGTTGAGGCTATAGTGAGCCATGATCATACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTC  
AAAAAAAAAAAAAGAATTGGAGATGGTTCTGCCCCTCTGTTTCTCTGAAAAACGAGGTAATTCCTGAGCCC  
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTATTTTACTTTTTT  
TCAAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTCTTATTTTGCC

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**FIGURE 5420**

MGASVSRGRAARVPAPEPEPEEALDLSQLPPELLLVLSHVPPRTLLGRCRQVCRGWRALVDGQALWLLILARDH  
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLIRNPGQEGLRKWMVQHGGDGWVVEENRTTVPGAPS  
QTCFVTSFSWCCKKQVLDLEEEGLWPPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAPDP  
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

[illegible]

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**FIGURE 5422**

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIIVRGSK  
GAKDGALTLLLLDEFENMSVTRSNSLRRDSPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGD  
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQGEPH  
DVA PNGPSAGGLAIPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVPGPPGPRSPQREPQRVS  
HEQFRAALQLVVDPGDPRSYLDNFIKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH  
ENVVEMYSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTH  
DGRVKLSDFGFCQAQVSKEVPRRKS LVGTPYWMAPELISR LPYGPEVDIWSLGIMVIEMVDGEPPYFNEPPLKAMK  
MIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

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**FIGURE 5423**

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTCACCTGAGTCTCGCTGGAGCTCTTC  
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC  
CCCTGAAGTCGGCAGGCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCCGTGCGCTCGTC  
GCTATGGCCGCCACCATCCAGACCCAGGCCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT  
GAGAGGTCTGGAGTGCTGCGGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCTTCGACCCCAAGTTTCATC  
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGAGAAACAGCACAAACATGACCTC  
CTGACTGAGCCAGACCTGGGGGTACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT  
CTAGATCCAGCTGATGAGAACTTTTGGAAAGAGGAGATTAGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC  
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG  
AAGCCTGAGGTCAAGATTGGGGTTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC  
CAGATCACAGCCATTGAGAAGACTTTTGGAGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC  
ACACCGGTGGAGGTATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC  
TCAGACCCAGCCCCCAAGGACACGAGTGGTGAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG  
ATGGATGAGGAAGGGAACCGAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC  
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAATGGAACGTG  
AAGAACAAGCTAGCAAGGGCTATGAGGAAAATACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT  
GAGTTGGAACACAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT  
GTGGTCAAAACATCGGGACATGAATGAGAAGGAACTGGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACAC  
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG  
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC  
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCGTGAC  
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC  
CAAGGTGGCAGTGACAATGATTGAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGCAGC  
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT  
GAAGCTGATAGTGACAGTGACTAGAGTCCCAGGGCATTGAGGGCTGGTTCAGACACCATTATTGTGAGCAGCAAAG  
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCATTGTTTGTCCCCACCCCAAACCTTTGCTGTTAATAAAGT  
CAACTTCTCTTTA

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**FIGURE 5424**

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCrvKYCNslpDIPFDPKFITYPFDQNRfvQYKATSLEKQHKHDL  
TEPDLGVTIDLINPDtyRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWmrKTEYISTEFNRYGISNEK  
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDS  
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRdQEEEMDYAPDDVYDYKIAREYNWNVK  
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLNHE  
PEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDESEDEARAARDK  
EEIFGSDADSEDDADSDDEDrgQAQGGSDNDSDSGSNGGGQrSRSHRSASPFPSGSEHSAQEDGSEAAASDSSE  
ADSDSD



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**FIGURE 5425**

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC  
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA  
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC  
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAGAGGAGATTGAGCCCCCACCAGCT  
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC  
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA  
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC  
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTGATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT  
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCCTC  
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGT  
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC  
GGGAGTACAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAAATAATACTTCATCTTC

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**FIGURE 5426**

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCCGTCCAAGGGCCCGCTGCA  
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAACGCGGCAATGGTCTCATCAA  
GGTGAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT  
CGGCAAGGAGCGATTGTCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC  
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT  
CAAAGACATCCTCATCCAGTATGACCGGACCCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG  
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATTAAGCCCATCGTGACTCAAACCTCACTTGTATAAT  
AAACAGTTTTTGAAGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAA

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**FIGURE 5427**

MPSKGPLQSVQVFGRRKTATAVAHCKRGNGLIKVNGRPLEMIEPRTLQYKLEPVLLLGKERFAGVDIRVRVKGG  
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSYR

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## FIGURE 5428A

AGAGAACAGATTTCGGAAGCTGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCTACTCCGCTTCGCGATTGCC  
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAAACTGAGGCTCGGGGT  
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCAGCAGCAGCGGAAGAGTGTCGGACAGCGAGGAC  
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGG  
AGTGACGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG  
GAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT  
GTTGACGATGAGTATGAGGACGAGGACAGTGAGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA  
GCGTCCAATATCGATAATGTTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCTCGAAAACCTCTGGAGGGAC  
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA  
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT  
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTTCCTTGATGCGCAAGTTCATTGCCTACCAGTTCACA  
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCATACAAG  
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCC  
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTCGGGTCCGCTC  
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCCAGCCAGAACACCATCTCCCTGAAG  
ATGATCCCACGCATCGACTACGATCGCATCAAGCCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG  
TTTAAGCGGCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT  
GACTTCCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGCTGTCTGTG  
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG  
GTGGTGAAGTGAAGCAGGGAAGGAGCGGGAGCACAACCTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT  
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCAAAGCATGAGGAC  
CTCAAGGACATGTTGGAGTTCCAGCCCCAGGAACCTTAGAAAATACTTCAAGATGGGGGACCACGTGAAGGTGATT  
GCTGGCCGATTGAGGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTCGTTATCCTGTTCTCTGACCTC  
ACCATGCATGAGCTGAAGGTGCTCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG  
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAG  
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGAAGTGTGACAGATCAGGCTGTGACCCGGAAGAAGGACAAC  
CGCTTTGCTGTGGCCTTGGACTCAGAGCAGAACACATCCATGTGAAAGACATCGTTAAGGTGATTGATGGCCCC  
CACTCAGGCCGAGAAGGGGAGATTGCGCATCTCTTCCGAAGCTTCGCTTCTTACATTGCAAGAACTGGTGGAG  
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC  
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTGACGCT  
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCGGGGCGGAGGGACAACGAACCTCATC  
GGCCAGACCGTGCGCATCTCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAGATGCCACAGAGTCCACG  
GCCGCTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGG  
CGCCCGGGCGGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCAGACGCCCCATGTATGGCTCTGGC  
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG  
CCCCTGCATGATGGCAGCCGCACTCTGCCCAGAGTGGGGCTGGGACCCCAACAACCCCAACACGCCGTACGG  
GCTGAGGAAGAATATGAGTATGCTTTGATGATGAGCCCACCCCGTCCCGCAGGCCTATGGGGGAACCCCAAT  
CCCCAAGACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATACAACCCGCAGACGCCAGGGACG  
CCGGCCATGTACAACACAGACAGTCTCTCTCCCTATGCTGCCCCCTCCCAACAAGGTTCTTACCAGCCAGCCCC  
AGCCCCCAGAGCTACCACAGGTGGCGCCAAGCCCAGCAGGTACCAGAATACCCACTCCCCAGCCAGCTACCAC  
CCTACACCGTCGCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTTATGACACCTGGA  
GCTCCCTCCCTGGTGGCTACAACCCACACAGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTAACC  
ACTGACATTGAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTATCCGCAGT  
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTGAGCATTTCAGTGAGCACCTGGAG  
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCTGGGCGAGGATCGGGAAGCCACGGGCGTCTACTG  
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCCTG  
GGGAAGCTCCTGGAAGCTGAGAGCAGGCGGGGCTGGACTTCGTGCGATGAAGAGTGATCCTCTCTCTCTCC  
TGGCCCTTGGCTGTGACACAAGATCCTCTGAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTCTCTTT

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**FIGURE 5428B**

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG  
TACCTCCTCCCCACAGCTTGCTTTTGTTGTACCGTCTTTCAATAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAA  
AAAAAAAAAAAA

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**FIGURE 5429**

MSDSEDSNFSSEEDSERSSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEYDEEEEEEDDDRPPKKPRHGGF  
ILDEADVDEYEDEDQWEDGAEDILEKEEIEASNIDNVVLDEDRSGARRLQNLWRDQREELGEYYMKKYAKSSV  
GETVYGGSDLSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIAYQFTDTPLQIKSVVAPEHVKGYY  
YVEAYKQTHVKQAIEGVGNLRLGYWNQQMVEPIKEMTDVLKVVEVANLKP KSWVRLKRGIIYKDDIAQVDYVEPSQ  
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKS  
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTTESTGKEREHNFQPGDNVEVCEGELINLQKILSVDGNKITI  
MPKHEDLKDMLFPAQELRKYFKMGDHSVVIAGRFEGDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA  
SGVDVGGQHEWGEVLQDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFVAVALDSEQNNIHVKDIV  
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAFMSPRISSPMHP  
SAGGQRGGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRL  
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTTPMYGSQTPLODGSRTPHYGSQTPLDGSRTPAQSGAWDPNN  
PNTPSRAEEYEFYAFDDEPTPSPQAYGGTPNPQTPGYDPSPSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG  
SYQPSPPSPQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPPSPVGYSPMTPGAPSPGGYNPHTPGSGIEQN  
SSDWVTTDIQVKVRDITYLDTQVVGQTGVIRSVTGGMCSVYLKDSEKVVSISSSEHLEPITPTKNNKVKVILGEDRE  
ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA

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**FIGURE 5430**

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT  
GTTTCTGTGTCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC  
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT  
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT  
CCCTTCCTTTCGCTGCGTCCCTTTCAGGGGCGGTGGCGCTCTGCAAGGCCAAGGGGGCGTGGTCCAGATGACTTT  
GAATCCCAGTTGTGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCGAT  
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCCGCTTCCATTGGCTGTAGCTCCGGCCCCGGG  
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCCGCTGGCGTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG  
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGTTGGCGACGCCGCCCGCCGGGCCCCA  
GATCAGGCCGCGAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGGT  
CCCAGCTATGCCAAAAAGTTGCGCTCTGGCTTGTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCTGTCTAT  
ATCTTTGGAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGTAGTTCGACAATGATCCAATTTCTGGTA  
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCTT  
CTCCCAGACCTCTGCAAGAACCGTACTACCAGCCACCTTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG  
CATCTGAGTGGTTCGCTGGCCACTGGCTGGAGGTTTAAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT  
GCCCCCTTTATATGAAATTGTCTCTTTACGTCAGAGACTGGCATGACTGCGTTTTCCACTCATTGATAGTGTGGAC  
CCCCATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT  
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT  
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAAG  
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG  
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG  
CAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC  
AAACTCAGTGCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCAATAAAGTACA  
TCCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT  
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGGTGCTTTGTTGGATCAGAGCAGATTTTACCCC  
TGGTCTCGGAATCTAAAAACCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG  
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA  
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTAACAGGCCAGCTGC  
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

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**FIGURE 5431**

MASALSIGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPPGSARRLVRSKRACGNPPDAFGLSRASVHPPL  
PRVSGCSSGPGRKRERVGGAAWRQRKMAASAAVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSK  
AQGPQQQPGSEGPSYAKKVALWLAGLLGAGGTVSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY  
RQMIIPTSPCLLPDPLQEPYYPPTYTLVLELTGVLLHPEWSLATGWRFKKRPGETLFFQQLAPLYEIVIFTSET  
GMTAFPLIDSVDPHGFI SYRLFRDATRYMDGHHVKDISCLNRDPARVVVVDCCKEAFRLQPYNGVALRPWDGNSD  
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALEDDPLAAFKQRSRLQEEQQRLAELSKSNKQNLFLGSLTSRLW  
PRSKQP



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**FIGURE 5432**

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA  
GACACGGCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC  
CCCCTGCAGCGCCCCGGCTCCCCTGCCGCCTCTTCTTCAGAGTCTGCCCTGAAGCCTGGGGCTCTCAGAGGAGGCCGC  
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGC GCGCGGACCGGTCTACACCGAGCAGCCCCGAGCGCCCCG  
GCCTGATCTCCCACTGCCCGACGGGCTCTTGAGGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAT  
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCTGGAGCCTGCTGGCGCGCGTGGCTGG  
CAGGCGGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCGGGACATTACAGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC  
GTACCGCGCGCGCTGCGAGCCGCTGCCGTGGGACCGCGTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC  
GCGGTGCGGTCCGGGACTGCGCCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGG  
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG  
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCCGTCTCTGCTACCACCGGATGCCTTGTCCC  
TGGGCCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCTTTGAATG  
CACCTGCCCCGCTGGGTCTACGGGCTGCGGTGTGAGGTGAGCGGGTGACATGTGCAGATGGACCCTGCTTCAA  
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCACCTGGTTTTCAAGGCTC  
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA  
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG  
CGCCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG  
CCGCGACTGCCGCGAGCGCGCGGACCCGTGCCCGCGCGCCCCCTGTGCTCACGGCGGCCGCTGCTACGCCCCACTT  
CTCCGGCCTCGTCTGCGCTTGCCTCCCGCTACATGGGAGCGCGGTGTGAGTTCCAGTGACCCCCGACGGCGC  
AAGCGCCTTGCCCGCGGCCCGCCGGGCCCTCAGGCCCGGGGACCCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG  
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCGCTGGCCACTCCCAGGA  
TGCTGGGTCTCGCTGCTGGCTGGGACCCCGGAGCCGTAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG  
GACGCAGGAGGGTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCTCAAGG  
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCCCTTTTCCCCCGCTACACACTGG  
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTCCCTACCCCTTCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG  
TCTCTGGAAGTTTTAAGCCATTTTCAGTTCTAACTTACTTTATCCTATTTTGCATCCCTCTTATCGTTTTGA  
GCTACCTGCCATCTTCTCTT

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**FIGURE 5433**

MVSPRMSGLLSQTIVILALIFLPQTRPAGVFELQIHSFGPGPGPGAPRSPCSARLPCRLFFRVCLKPGLSEEAES  
PCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVFFRDAWPGTFSFIIETWREELGDQIGGPAWSLLARVAGRR  
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRGPGGLRPCAPLEDECEAPLVCRAGCS  
PEHGFCEQPGECRCLEGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC  
PRGFYGLRCEVSGVTCADGPCFNGLCVGGADPDSAYICHCPPGFQGSNCEKRVDRCSLQPCRNGGLCLDLGHAL  
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGRDCRERADPCAARPCAHGGRCYAHFSG  
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQRYLLPPALGLLVAAGVAGAALLVHVRRRGHSQDAG  
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSVDNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRA  
GQRQHLLFPYPSSILSVK

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**FIGURE 5434**

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGCCGGTTTGTGTGGTCGCCATTTTGCTGGTTGCATTACTGGGT  
AATCGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC  
AGTTTGAGTCCCCCTGCCCGCTCCTTCAGGTCTCAGCGGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC  
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCTGCGGCCCTCTGAGCCACCATGCCGTCCCACCGGGCCA  
TGGTCCCTTCTCTGGCTTCCAGGGCCCCAGGAGCACACGCAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG  
GCTGCCCTTGGCTTCCGGGATGCAACCTCAGCCCCGTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA  
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGCCCCAGCAGGCGCCACCCCAGGATTGAGCAACAA  
GAAGGAGAAGAAGGTCTGAACCATGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGGTG  
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA  
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAAAGGCTTTCCTGAACCAGGCCAGATTGAGCTGCG  
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACCTTCATGTT  
CCGGAACCACCTGTGCTGGTATTTGAGCTGCTGTCTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG  
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTCTGGCCACGCTGA  
GCTCAGCATCAATCACTGCGACCTCAAGCCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT  
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC  
TGAGGTGCTCCTGGGCACACCCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA  
CACCGGAGAGCCCCCTCTTCAGTGGCTCCAATGAGGTGACCCAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC  
ACCGGCCGCCATGTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCT  
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA  
GACGGGCGGGCCCCGGGGCGGGCGGGGAGCCGGGCCACAGCCCCGCGACTACCTCCGCTTCCAGGACCT  
GGTGTGCGCATGTGGAGTATGAGCCCGCCGCCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG  
CCGCACGGCCGACGAGGCCACCAACACGGGCCCGGCAGGCAGCAGTGCTCCACCTCGCCCGCGCCCTCGACAC  
CTGCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC  
CTACCGCTACAGCAACCGATATTGTGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT  
CCCACCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGATGTGCCCCACAAGACACATCAAGCCCCTGCCTCTGC  
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTCGTCCCCCATCACCAACCTC  
ACCACCACCCCCGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTCACCCAGCGCC  
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTGCTCCACCCCTCCGCTCCTGA  
TGACCCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGACCCCTG  
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATACCCTCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT  
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA  
AGGAGAGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGGCCCTCTCCCCCTTTTTTCTATTTA  
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTCACCCAGGACCTAGGAGGGGTGGGGGC  
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTCTCACAAAAA

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**FIGURE 5435**

MAVPPGHGPFSGFPGQEHTQVLPDVRLPRRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP  
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKIKNKKAFNL  
QAQIELRLLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQLCTAL  
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG  
CILVEMHTGEPLFSGSNEVDQMNRIVEVLGIPPAAMLQAPKARKYFERLPGGGWTLLRRTKELRKDYQGGPGTRRL  
QEVLGVTGGPGGRRAGEFGHSPADYLRFDLVLRMLEYEPAAARISPLGALQHGGFFRTADEATNTGPAGSSAST  
SPAPLDTCPSSSTASSISSSGSSGSSSDNRTYRYSNRYCGGPGPPITDCMNSPQVPPSQPLRPWAGGDVPHKT  
HQAPASASSLPGTGAQLPPQPRYLGRPPSPTSPPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR  
PPLPPDDPATLGPFLGLRGVPQSTAASS

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**FIGURE 5436**

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA  
GTCCCGTGGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGGTGGTCGTGGAGGCCGAGGGGGCTTTG  
GCGGGGGCCGAGGTCGAGGCGGAGGCTTTAGAGGTCGTGGACGAGGAGGAGGTGGAGCGGCGGCGCGGTGGAG  
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTCGTGGTCGGGGAGGAAAAAGAGGAAACC  
AGTCGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTTGTCGAGGAAAGGAAGATGCAC  
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCGGAAGGAGATGACA  
AAATTGAGTACCGAGCCTGGAACCCCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC  
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG  
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTTGCCAAGA  
AGAGGACCAACATCATTCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG  
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCTGCGTA  
ATGGAGGACACTTTGTGATTTCCATTAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTGCCT  
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGCAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACC  
ATGCCGTGGTCGTGGGAGTGTACAGGCCACCCCCAAGGTGAAGAACTGAAGTTCAGCGCTGTCAGGATTGCGAG  
AGATGTGTGTTGATACTGTTCACGTGTGTTTTCTATTAAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAA



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**FIGURE 5438**

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC  
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA  
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC  
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGCGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA  
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCCACCTCCTCATGTCCATCCCCAGCCCCCTCCGTGGACGGCTCTG  
TGGCCTCTGTGGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT  
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG  
CCCAGTGTGCTTGGCAGAGGAGACTGCACCTATGAGAGCAACGAGGGCTGCGGGCAGCTCCGGAACCCCCAGGG  
CCCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA  
AAAGGGTGACAAAGCCTTCTGTGCGCGAGCCTGGCAGCCTACACGGCGGCCTGTGAGGCAGCTGGCGTGGCCGT  
GAAGCCCTGGAGGACAGACAGCTTCTGCCCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC  
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA  
CGACCGCTTCTCTGCTTTCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT  
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCCTCAAGCTCTGGCCTGACATG  
CCAGGCAGCTGGCTGCCCACCAGGCCGTGTATGTGAGGTCAAGGCTGAAGCCCGGAACGTCTGGGCCACCCGTGG  
TCTCTGTGTCTGTCTGTGGGTGCCAACCTCACCACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT  
CTATGAGCTCTCTTCCCGCTGCCCAGGACTACAGAATACCATCCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT  
CTGCCATGGCAAACGGAGGCTGTGGGCCAGGTCCACATCTTCTCCAGGATGGGATGGTGACGTTGACTCCAAA  
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC  
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGAGCCAATGGGAAGGTGGCTGT  
GATTGTGAGCAATGACCATGCTGGGAACTGTGTGGGGCCTGTGGAACTTTGACGGGGACAGACCAATGATTG  
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT  
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT  
GTGCTCCTACCCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC  
T

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**FIGURE 5439**

GTCAACTTAGTGTACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTGGTTCCTCCCTTTCTTAA  
GCCCTTATTGGCTATCTTCTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT  
TGTTTAACCTGCTGGTAAAATTCACGTCTTTCAGACTGTAATGCTTTCATGCCAAGTAAATGGTCTTGCCAGGCT  
TCCAGCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCCTCAGCAAGCCATAAGAAATTTCTACTCCT  
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCAGAAGAGACCTTTGCTCCTTAAGAA  
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAGGCTGGAGGACACACCTAAA  
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA  
TCCTGCCCACCCACCCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG  
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG  
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG  
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA  
GCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAT  
ACAGGCCCTGGACCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG  
GGGAATGTAGCCCTTGCTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA  
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTGCTGCTTGAGAGATCATATAGCTAATGAATTA  
GGCAGGGGAGCTATTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTGAGATCTGTAAAATGTGATTTTT  
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTT  
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTTGGTTGCACTAACTGC  
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA  
GCCCAATATGCTGTCTCGGGTCCTATTCAAATAAAGTTATTTCTCCTGGTCT



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**FIGURE 5440**

GCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG  
CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGA  
TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCCTGGAAATCCCTCCTGTGAATCCCTTGGCT  
CCTGGCATGGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG  
CACAAGCACCAAAAGCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGT  
GATTCTGACTGAATACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG  
CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGA  
GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA  
TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTGAAGATGATGAACATAATGTT

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**FIGURE 5441**

GGCTTGGTCACTATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC  
CGGCCCCAGACCGGCCTGTCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG  
CTGCAGCAAGAGCTGGAGTTCTTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA  
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG  
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAATAATTATGTGCGCATCCTGAGCACCATCGATCGG  
GAGCTGCTCAAGCCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA  
GCCGACAGCAGCAICATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC  
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTGAGCTCTACAAGCAGATCGGCATC  
GATCCCCCCCCGAGGCGTCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT  
CACACAACAGCTGCATTATCCGGGTCTGTTGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG  
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC  
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAAGGATCCTGCTGGAGCTGCTGAATCAGATG  
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG  
CTACGGCCAGGACGGCTGGACCGTAAATTTGAATTTCCACTTCCTGACCGCCGAGAGATTGATTTTCTCC  
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAGACTATGTGGCCCGCCAGATAAGATTTC  
GGAGCTGATATCAACTCCATCTGTCTCAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTGGCC  
AAGGACTTCGAGAAAGCATACAAGACTGTCTCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGACCCCTTC  
CCTTCCCTCCACCACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATT  
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5442**

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA  
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYVVRILSTIDRELLKPNASVALHKKHSNALVDVLPPEADSS  
IMMLTSDQKPDVMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA  
AFIRVVGSEFVQKYLGEGRMVRDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD  
QNVNVKVMATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI  
NSICQESGMLAVRENYIVLAKDFEKAYKTVIKKDEQEHEFYK

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**FIGURE 5443**

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC  
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG  
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCCGAGGCCCCCTGATCAG  
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAAACACC  
TTTGTCTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG  
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC  
AAGTGTGGCTCCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTGAGCAAGGCACGGGCTAAAGTG  
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGCCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG  
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA  
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC  
GACCGCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC  
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA  
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC  
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGGAGTACCTGGCGCCTGAGGTGCTG  
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGCTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC  
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG  
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC  
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC  
CTGCCACCCTTCAAACCTCAGGTCACGTCCGAGGTGACACAAGGTACTTCGATGATGAATTTACCGCCCAGTCC  
ATCACAATCACCCCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG  
TTCTCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGCTGCCATCACCGCT  
GGGTGGTTTTTTCCCCCT

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**FIGURE 5444**

CTCTTTATAATTTAGTTTCCATAGAAGTTATATGTGCATTTAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG  
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC  
GGAGCTCCCACAGGCCCCGCCCCCTCCTCCCAACCTCGTTTCAGCCTGTCCAGACAGAAGCTGGGGCCCAGCGGAG  
GTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT  
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG  
AGGAGCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCC  
TGCTGGTCTCTATTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT  
TGCATCTCTTTGGGCCCAACAGCGCCCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATTC  
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG  
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT  
CTGCCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG  
TGAGCAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG  
TGGACATGCAGAAGCTGACCCATGGCGTCTGTCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG  
GCAGTGCCAACATGGACTGGCGTTCACTGACCCAGGTCAAGGAGCTGGGCGTGGTCATGTACAACTGCAGCTGCC  
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT  
GGCCCCGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG  
CCTACCTGGCGAGTGCGCCCCACCCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG  
TGGACAATGCCCGGAGTTTCATCTACGTGCTGTCACTGAACCTACCTGCCCACTCTGGAGTTCTCCACCCCTCACA  
GGTTCTGGCCTGCCATTGACGATGGGTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA  
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC  
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCCTGTCA  
ACCACAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG  
AGACGGCGGGCACCTCGCTGCTGGTGACGCAGAATGGGAGGGGCGCCTGCGGAGCCAGCTGGAGGCCATTTCC  
TGAGGGACTGGGACTCCCCCTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC  
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC  
TGTCCTCCGCGCCCCGCTTCTGTCTGCCCCATTGTGGTCTCTCAGGCTCTCTCCCCTGCTCTCCACCTTACCT  
CCACCCCCACCGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCAAAGAAATGG  
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCCACCCCACTTTCAGGGCAAAAAGGGCCAGGGTTATAATAAGTA  
AATAACTTGTCTGT

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**FIGURE 5445**

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG  
GTCCCCAGTCGGGGGGCTCCCGGGGAAGTCATTTCATCTGAATGTGGGAGGCAAGAGATTCAGTACCTCTCGCCAG  
ACTCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC  
GGAGCAATCTTCATCGATCAGGGACCATTACAGTCTTCGCCCCACCCGTCACCTCTACGTCTTGCGCATCACAAAGA  
GTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCCAGTTCATGGGCTCACTCCTCTGGTTTCG  
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGAAACGTCCTCTTCAATGGTTACCTGCCGCCACC  
AGTGTTCACAGTGAAGCGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGCCAGCCCCGT  
CCGACGGAGCAACACGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCCC  
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCCTGGTGTGTGGACACCATAATTGGATCGCTGT  
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG  
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT  
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT  
CTTTCATCTGGGGGTGCCTGTGGAGGCCTTGTCTTCGTCGGGAACAGCTCATTGCTACAAGCCACACAGGGCG  
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC  
AGGCTCCTTCCTCCTCCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCCTTGCAT  
GAAAGACAACGACCTCCTTGTGTCAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCACCGCCCTCAGTGTCTA  
CCTCACCCCAAGACCAGTGACAGTGGGAAGTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGGGGT  
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCCTCAGCTCTCCAGACCTTCACTGTGCACCGCAGCCCTGT  
CACCAAGATCATGCTGTGCGGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACACGTGCGGACATGGTCTGT  
GACTCGCTTCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA  
GTCGGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCCTACGGTGAGCGGGACGACCAGCAAGT  
GTTTCATCCAGAAGGTGGTGGCCAGTGCCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC  
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGGGAGGGCTCCCGCGGCTCGGCTC  
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGCCATGTGGGACCTAACCAACGCCATGGA  
CGGCCTCGGCCAGGCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC  
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCCAGCCCCCTACCCCGCATCTCCCTCACCAGCCTCCA  
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCGGCGCCG  
TGGTGGGGGCAGCTTTGTGGAACGCTGCCAGGAAGTGGTGGGAGTGGGCCAGACCTCCGACGGCCACCCACACC  
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACTCCCTCACACCTCCCAAGATGAAGCTCAATGAACTTCCTTTTG  
AACACGCAGCTGCCATGATGCCCTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA  
ACCCCGGGTTCAGGGCCAGGGCCTCCTTGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCCTCTTTTCTG  
GAAGCCAAAGTCACCTCCCCAATAAAGTCCTCACTGCC

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**FIGURE 5446A**

CGTTGCTGTTTGTGCTGCTGCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG  
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCCAGCGGTGCCTGAACCCAGTGCCTG  
CAGTGCCCCAGTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG  
CCAGAGCTCTACTGAAGCGGCGGCGGGCCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC  
GTGCCCCCGCTGGCAAGGCCCGGTCTGTGTCCCTTGATCTGTCACAATGGCGGTGTGTGCGTGAAGCCTGACC  
GCTGCCTCTGTCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCGGCCCGGCCCGG  
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCAGCAGCAGCAGCGCGTGGCAT  
CTATGGTGAGCGTCCACGTGGAGCACCCGCAGGAGGCGTCGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC  
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGCGGAGGCGGCGAGCGCCCTACA  
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTTCGGGAGC  
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCAGGAGGTCTGCTGCCGAGGGGCCGGCTTGG  
CCTGGGGCGTTACGACTGTGAGCTGTGCTCCGAGCGCCTGGGGAATCCGAAAGAGTGAGCGCCCCAGATGGAC  
CTTGTTCCAAACGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCGCGACTGGCGGGCGCTGCC  
AGCACGGCGAGTGTGCAACACGCGCGGCGGGTACACGTGTGTGTGCCCGACGGCTTTCTGTCTGACTCGTCCC  
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCCGCGTGTCTCCGCGACGGCGGT  
GTTTCGTGCCCCATTCTGCGGAACATCACTAAACAGATCTGTCTGTGAGCCGCGTAGGCAAGGCCTGGGGCCGGG  
GCTGCCAGCTCTGCCCCCCTTCGGCTCAGAGGGTTTCGGGAGATCTGCCCGGTGGTCTCGTTACCACTACT  
CGGCCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCGAGTGTCACTCAGCCAGCCTCGTA  
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCCAACCATCGCCTGGAGCCCCGGCTGAACCCCGGC  
CCGATCCCCGGCCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG  
GTCCCTCCTCCGGCATGTGTACGCGCAACCCCCAGGTCTGCGGCCAGGACGCTGCATTTCCCGGCCAGCGGT  
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTGCC  
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAACTCACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCT  
TCCGAGCCGGCCCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGCGTGCCGCCCGCGTGTGACCTCG  
GGCGTGCAGAAACACGCCAGGCAGCTTCTGTGCGTGTGCCCCGCGGGTACCAGGCTGCACCGCACGGAGCCA  
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCCTGTGTGGCCGAGGGGCCTGCAAGAACCTGCCTGGCT  
CTTTCCGCTGTGTTTGCCCGGTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC  
CGCCGCCCTGTGGGCCCGGCCGTGTGACAACACGGCAGGCTCCTTTACTGTGCCTGCCCTGTGCTTCCGCT  
CCCGAGGGCCCCGGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCCAAGCCCCCACCCTGCACCTACGGCCGGT  
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCAACACTGTGGCTCCGAGTGCG  
AGGATGTGGATGAGTGTGAGAACCACCTGCATGCCCTGGGCAGGAGTGTGTGAACTCGCCCCGGCTCCTTCCAGT  
GCAGGACCTGTCTTTTGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCGGGTGCC  
CTCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAAGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG  
CGCGTCCGGTCCGGCCGGGCCCTGCGCAGACGTGAACGAGTGCCCTGGAGGGCGATTTCTGCTTCCCTCACGGCG  
AGTGCCCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCCCTGGCTACCGACCCGACCCCGCGGAGCCTCTT  
GCCTCGACGTTGACGAGTGACGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG  
AGTGATCTGTCTCCGGGACACCGCGCTGGCCCGGACCTCGCCTCCTGCTCGACGTGGACGAATGTCGCGAGC  
GAGGCCACGCCCTGTGCGGGTCGCAGCGCTGTGAGAACTCTCCCGGCTCCTACCGCTGTGTCCGGGACTGCGATC  
CTGGGTACCAACGCGGCCCGGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTGTG  
GAGCCACGCTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACAGCCTGTGACCTGGCTATCAGCCACGC  
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAATG  
TCGAAGGCTCCTTCTGTGTCTGTGCCCAACAGCCGGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC  
CACGAACCTCTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGTAGCCCCGTTCTGCCCGCCAGGCCAC  
CTCCGCCACCCCTGCCCGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGAGTGGGCGCCGGGAGTGCTACT  
TTGACACAGCGGCCCGGATGCATGTGACAACATCTGGCTCGGAATGTGACATGGCAGGAGTGTGCTGTACTG  
TGGGTGAGGGCTGGGGCAGCGGTGCCGCATCCAGCAGTCCCCGGGCACCGAGACGCTGAGTACCAGTCAATTGT  
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTGAGCTCT  
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

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**FIGURE 5446B**

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG  
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCCACTGGTGCTGGATGGCTCGCAGCGCC  
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG  
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCCTGTATGGAGAGGCCTGGGGCA  
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT  
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCCAGACTTAGGTCCACCTTACCAGGGCC  
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGGCCCTTCG  
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG  
AATCTGAGGCTCCTGCGCCACCTGGCCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC  
CAGAGCCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG  
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCTCCCGAAGGCTTCACCTGCCGTTGCT  
TCGACGGCTACCGCCTGGACATGACCCGCTATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT  
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC  
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG  
CGCCCCCACTCGGGGCCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCCTGGA  
CCTGGAGAAGGGACCTACGGACGCCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCAC  
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCCCTTTACATGCCCTCTCCCTTTTATAAAATTTCCATTAAAA  
ACCACCTATTTTCT



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**FIGURE 5447**

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT  
TCCAGGACCTTCTCCACAAGTAGGCCATTTTCCCTGCCAGGTGTCTTTTTGACCTCTTGACCTCTGACTCAAAG  
GTCAGCTCAAAGGTTCCGAAGTCCGGGCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC  
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAAGTCACTCATGAGTT  
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAAACCAACCGGT  
ACCACAGATCCGGTTCCGGATTTAAGGACCCACCCCTGTTAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG  
CAATTCCTGCTCCCGTGGTTTCAAATATTAGCCCTGGTCTTTTACACCCACTGCTCAGTCCCCAGATTCTGGAA  
CTCAGCTCTTAAACCTTTAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT  
GAACCTCTCAACACCTCCTGTAGACCCCAAATGACTTCTCCATGCTCTCCTCCCCATAAACCAACCAATTTCTCC  
TCCAAAACCCCTGTACCCCAAGCCAGCAGCATTCCATCTCCTCCTTACCCCAAGTCCCTTGGACTTTTTCAGC  
TTTACCATCCCTCCTTGGAGTCAGCAGACCCCTGTTCCCCACCGCTCCCACTGCCTCCTCCACCCGCTGCCAC  
AGGGCCTGCTCCCCGTCATGTCTTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC  
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG  
GATCCTCTTCTGTGACAGCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC  
AGGTAATCTCCTGTGCGCCCCCAGTGGCGTCCCTTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC  
GGCCAGGGAGAGATGTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTGAGGAAGGGCCAC  
AAGGCACACTGGGCGGTGAGTGCAGGGGTCTGCTGGGTGTTGCGGCTGTGCCAGTCTCGGCTACACTGAGGAC  
CCTGAGCTGCCGGGCTGTTCCACCCAGTGTGCGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC  
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACCAGGTCCGG  
GAGAGCAACCTGCAGCTGACGGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGGCCGTGGGT  
GGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG  
TCTCAGGCTGCAGCCTAGCTCGTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCTCTACCTGTGTTA  
GCAGATCTGGCAACCCTGTAAGGGGGGTGCTAGATGGACCCGATTTGACAGATGGCAAGACTGAGGCCTGGAGAA  
GTGGAATCACTGGCCTGAGGTACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTCTGTCAGGCTGGAGT  
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG  
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGACGGGGCTTTGCCAT  
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCCCTCGGCCTCCCAAAGTGCTGGGATTACA  
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAGTATTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCCACC  
ATCCCAGCCCTGATCAGCCTGTCTGTGCATCCCCCATCCCAGCCAGGGCTTGGAGCAGCCTTGCTCACCCTGTG  
TCCCTGCAATTGTAACACATCCAGGCACAAGAATAGCCGCCAGTGAAGTGAAGTGAACAGCCTGCTTG  
GAGCCTGCCTCTTTCCCAAAGTCTCATTATCCTGTTACCCCAACCCAGCCACGTGTCCAAATACACTCCAGATG  
CAAAATAAAAAGCTCTACGACA

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**FIGURE 5448**

GAATTCCTGACTTCCTTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTTGGAGAAAACCCAGG  
GCTAAAGTCACGTTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTA  
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAGTCCCTGTACGCCATCT  
TCTCCAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGCCAGGCCTTTGTCACTCT  
TCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA  
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG  
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGAGCCACCCCGTGG  
TGGGGGCTGTCCAGGGGCCTGTCCCGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG  
GCCAGCCGCCCTACATGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACCGGGG  
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACA  
TCTTGTTCCTCACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCT  
TCAAGGAGGTCGGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGG  
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGC  
ACCTTTTCCCCCATGCCTGCCCCCTTCCCCTGTTCTGGGGCCACCCCTTCCCCCTTGGCTCAGCCCCCTGAAGG  
TAAGTCCCCCTTGGGGGCCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT  
GTCCCAGACATTGCACCTGGCGCTGTAGGCCGAATTAAAGTGGCTTTTGTAGGTTTGGTTTTTCACAAAAAA  
AAGGAATTC

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**FIGURE 5449**

MAVPETRENHTIYINNLEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF  
PFYDKPMRIQYAKTDSIIAKMKGTFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQA  
PRIMHHMFGQPPYMPFPGMIPPPGLAPGQIPFGAMPPQQLMPGQMPPAQPLSENPPNHILFTNLPEETNELMLS  
MLFNQFPFGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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**FIGURE 5450**

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC  
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAGGGGGACAGAGCCCTGGGAGGCCGGGCCGGGCTCGG  
GGGCCACCCCGGGGGCCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACCTTCGCGAGGAGCTGCAGCGCC  
GCGGCCTGGACACTCGAGGCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG  
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCACATCAACGAGGAGGTTCGAGACCGAGG  
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCGCCCGGGCTGCAGCCGCACGCGGAGCCCGGGGGCTACT  
CGGGGCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC  
AAGAAAACGAGTCAGGCTACGAGAGGAGACCCTGGAATGGAGCAGCAGCAGGCCTATCGTCCAGAAATGAAGA  
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCCTCCGCGCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT  
TCCAGAGTCGAAAGAGGCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC  
GCTCTCCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCCCTTGTTGCTATTGACACCTATAACT  
GCGACCTCCACTTCAAGGTGGCCCCGAGATCGGAGTAGTGGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT  
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT  
CCGTGAAGCACCTTCCGCTCTACAGAGCCTGACCCCCACGTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA  
CCCAGCTAGGCGAAGAGCCCTTTCTCCTATGGCTATGGAGGCACTGGGAAGAAGTCCACCAATAGCCGGTTTGA  
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGAAATGACGTGGAAC  
TGTCTTTTACCAAGAAATGGAAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCCC  
TCTATCCTCATGTCTGGTGAAGAATTGCGCAGTGGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG  
TCTCCCGGGGTTTACCTTCATCCAGCACCTTCCCCCTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA  
AGGCAGAATGTGAGATTCTGATGATGGTGGGCCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG  
CCTCCAACCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCTAC  
GCCGCGAGCGGAATATGCTGGCCGCTGGGATGTCTGATCCAGCAGGCCACCCAGTGCTCAACCGCCTCATCC  
AGATTGCTGCCCCGAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTACGCCAGAGACGAAAAA  
TGAGACCATTGAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCCACTGACGAGGACCTAAAAGACCGAACAA  
TAAAGCGAACCGACGAGGAAGGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACTTACGTTGC  
CAGATGTTGGGGACTTCTTGATGAGGTTCTGTTTATTGAGCTGCAGCGGGAGGAAGCGGACAAGCTAGTGAGGC  
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAAGCGCTTTGACAACCGAGGTGGTGGTGGCTTCC  
GGGGCCGCGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGGCGGCTTCC  
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA  
GCCAGAACCGCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC  
AGCAACAGCCGCCACCACAGCAGCTCCGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACA  
GCCCTGCTCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA  
GCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCTACAACCGGGAGGTTACA  
GCCAGGGCTACACAGCCCCACCGCTCCACCTCCACCACCCTGCCTACAACCTATGGGAGCTACGGCGGTTACA  
ACCCGGCCCCCTATACCCACCGCCACCCCTCACTGCACAGACCTACCCTCAGCCAGCTATAACAGTATCAGC  
AGTATGCCCAGCAGTGGAACCACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG  
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC  
TGCCGGCTTCTCCACAGCGCTGCTCGGCCCTCCTCTGCCCCGCCAGATCCCGTGGTGCTGGGGATGGGG  
TCATCCCAGGGCTGCCTCCCTCCAGCCCACTGCCTCCCTCTGAGGGGCTTCTTCCCTCCATAGGGCCAGGCA  
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTGTGTCCTCCACCTCCCAAGCCTTCCACCTC  
CTGTTCTTCTACCTTCTTCTTTTTGACTAAATAATCCCCACCTCCCTTGATCATAAGTGAGGCTACAGTGAC  
TGAGGGGAGAATCCCTCCTGTTCACTCTCCCAACCCTGCTCCAGCCCTCAGCTTCCAGACCCCTCATGCAGTT  
GGTTGTAAATTTCCCAGGAGCTGTTTTACTGTCTACTTTTCAGGATTAAAAAATACTAAACTTAAAAA  
AAAAGTTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTGGTAATTATGCGCTTTTTTTAAT  
TTTAGAATTTGCTTTTTTACTGTGGGTGGGCTGTTGATATTTTCATCAAGATAAGCATTCTTTCTGAGTTTACG  
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAAACC

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**FIGURE 5451**

GCCTGGGCGCAGCGGTGCACCCGGACCCGGAACATTCTCAGGCGAAAGTGTCTCTTTCGCTGCGTGGGCCCGGAGGT  
TAGTGTGCGGGGCCCGCCGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCCGTGGCGACGGCGACGGCGG  
CGAAGGAACCCGATAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCAGTCCCAT  
CTAAACCCCAAGGACAAAGTGAAGCAGCTGAGGCAACACCAGTGGCCCTGGACAGTGACCTCCGGGGGTGAAA  
ATGCAGCAGTGAGTGCTATGCTGCACGCTGTAGCCGCCAGCCGCCCTGCCTGTTTGCAGCCAGCAGCAGGGTGAA  
CCGACTTGACAGAGCATGAGAAAGTGGCCATCCTGGCCCACTGTACACGAGAAGCCACTGGTGTTTCTGGAGC  
GCTTCCGCACAGGCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCAACCGTGCAGACTTCT  
ACTGTGCTGAGGTGGCCCGGAGGGCACTGCCCGGCCCGCACCCCTGCGTACCCGCCCTGCGTAACCGGCGCTATG  
CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGCCCCCTGCTAT  
ATGAGCAGTACATCGGGCAGTATCTCACCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACCAGCCCCCAAGC  
CCGGGTCCCCCGGAGACCTGCTTGCCCGCTCTCCAATTGCTGCTCCAGTCTACGAGGAGCGGGAGCTACAGC  
AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCCCTGCTTGGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG  
AAGACCAGAGGTGAGGCAAGGACTCGGAGGCCTGGGTTCCCGACTCGGAGGAGAGGCTGATCCTGCGAGAGGAGT  
TCACCAGCCGCATGCACAGCGCTTCTTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC  
CCGACTTCGACAACCTCGACATCGTGGCAGGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG  
CGCCAGCCAGAGCTGGATGGGGACTGATGGCCGCCACCCCTTCCACCCGCTGCCCATCCCCATCCCCAACAA  
GGCAGCTGATTCAGGCCTGCTCAGTGACCCCTTTCTTAGGGGACATCAGGGCAGTGCCCCACAACCCACACAC  
ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCAACCCCACTGTTTCTGGGGTTCCCTTTCTCATC  
TCTCCACCCCTGCTCCTGCTCTGCTTTCTTGGTGTCTGTCTGGGCTTCTTTCTGTCTTTTCTGTCTTTCTG  
TCTCTCTCCCTACCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTG  
CCTTAGGCTCTGTCTCCACCGCAGGGCCCAAGGTGAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCCTT  
CGTGGCTGGAAGTGGCCAGTTTGGTTCCGGTGTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCGTGTGTCTGT  
CTCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC  
CTTCTGCCCTCACTCTGGGCCTCTTCTTTCTACTTGTACATTTCCACCTCTCTAGGCCCTGCTCTCACTGTCCCT  
CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGGCCCTTCTTCCCCCTT  
CCTCAAACCTGGCTGCTATAGGCAGCAGAACCCTGACCACTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC  
AGGCAGGGAGGATGGGGGAGCTCTCTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGA  
TGTAAGGGAGGGGGGACTCTACCTTCTCAGCCCCACAGCCCCCTCTGCCCAACCACAATTTTCCCTTCTCTC  
CGCCTTCTCTCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCAC  
ACACAGCTGCCCCAGCGTCCCTGCCCCAGCTGGCCGAGGGCCCGCCCATGGAGCCCCCTGCCGCCCTGGGC  
TAATGGGAGCCAGATGGCCGCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC  
CCCCACACCCGGCTCCTGCTCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGCACACAGGGC  
AAGGGTCACCAAGTCGGGGCCTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC  
CTGAAGGACCTCAAACTGCCTCCTGGAGTCCACGGTTCTTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA  
ACCAGAATTAGAGCCAGACAGGGAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA  
ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTGAGGCCGAGCGAAGTGCTGACACCGGGTTGGATCCT  
CAGATGGCCCATGAACTAGTGAAGTGGGTCAAAGGAGGCCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC  
ATCAGAGGCAGAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCCTAGAAACCACTTGGCTGTCTGGCCT  
CTCAGGTGTGAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA  
GGTTTGAGAAGGGTCAGATGGTAGGCGGGCTAACAAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA  
TCAGGTATCTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCCAGCAGTGCTATGCCCTAGGTACTACC  
AATATCACTCCTCTATTTCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA  
GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTTACCTGCCTGTATTGTGCCCATTTTTAAAGAGCAGAGGGC  
CTGGGCCACAGGAAAGGTATCAGCCCTTGGTGATAGGCACATTTTTACCAGTCTATCATTTGGTCATTAATTT  
GTTTACAATATACTTTGCTATAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5452**

MEAVATATAAKEPDKGCIEPGPGHWGELSRTVPVPSKPQDKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL  
PVCSQQQGEPDLTEHEKVAILAQLYHEKPLVFLEFRFTGLREEHLACFGHV RGDHRADFYCAEVARQGTARPRTL  
RTRLRNRRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGRPACPLSNLLL  
QSYEERELQQRLLQQQEEEEACLEEEEEEDSDEEDQ RSGKDSEAWVPDSEERLILREEFTSRMHQRFLDGKDGD  
FDYSTVDDNPDNDNLDIVARDEEERYFDEEPE DAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGGCAGGGGGGACGCCCCGTCCGGGGCACCCC  
CCCCGGCTCTGAGCCGCCCGCGGGGCGGGCCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC  
CCCAGAGTCTGAGACGAGCCGCGCGCCGCCCTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGACG  
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCAGGGGACCTC  
TTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCAGACCGCCTCCCTTTGCCGCGGGGACGCTT  
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCATTCCGGACCAGCCCTCGGGAGTCGCCGACCCG  
GCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGACCCCTGCACGCGCCTTCATCCCCGGCCTGTCTCCTG  
AGCCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCCTATTCA  
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCCGGTCCA  
AGCCTCCCTCCACACTGCGCCCTTCTCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCTACCTTTTGCCGG  
GAGACCCCCAGCCCTGCGAGGGCGGGGCTCCCCACCACACAGCCCTGTTCCGCGCTCTCGGCAGTGCCGGGGG  
GCGCGCCTCCCCATGCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC  
TGACGCTGGCCGGCGCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA  
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCCG  
GCCGCTGCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGGTGGCCGGGGAGAGTGCAAAACCG  
AGCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTACCCGCGTGCTAATGGTGGAACCCACAACGAAATCT  
ATGACAAGTTCAAGCAGAGTACACACAGCATATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG  
AACCCGTGTTGCTCTCCCGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAGTGGAGCAGCAGCTGGAGCTGT  
ACCAGAAATACAGCAACAATTCCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT  
TATCTTTGATGTACCCGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTGCGCTTAGCG  
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGCCGCGGAGGTG  
ACCTGGCCACCAATTCATGGCATGAACCGGCTTTCTGCTTCTCATGGCCACCCCGCTGGAGAGGGCCAGCATC  
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAACTGCTGCGTGC  
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT  
CTGCTCGGGCCCTGCCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCTGGCCCTGTACAACCAGC  
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGAGGCGCTGGAGCCGCTGCCCATCGTGTACTACGTGG  
GCCGAAGCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCGC  
CCCGCCCCCGCCCGCAGGCCCGGCCCAACCCGCCCCGCCCCGCTGCCTTGCCCATGGGGGCTGTATTTAAGG  
ACACCCGTGCCCCAAGCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTATTGGGCG  
CCTGCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCTCCTCTGCTG  
TCTGCACTATTCTTTGCCCCGCATCAAGGCACAGGGGACCAGTGGGGAACACTACTGTAGTTAGATCTATTTAT  
TGAGCACCTTGGGCACTGTTGAAGTGCTTACATTAATGAATCATTGAGTACCATAGCAACACTCTGAGATGC  
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCTGCCCCACC  
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTAGGCCAGGCGGGGTGGCTCACC  
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTGAGACCAGCCTGGGT  
AACATAGTGAGACCCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCAGCTACTCTGGAGGCTA  
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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**FIGURE 5454**

CAGCCGCACGTGGGCTCGGCGCGATCGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG  
GGTCCAGCCCTCGGGGTCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTGCGGGCCAGATG  
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTGGCGGGTGTGTACGGGCCGGCCGAGGTGAAGGTCAGCA  
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA  
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG  
TGGTGCTGCAGGTTGTGACGATGCCGGCTCTCTCTGGCCTGTTGTCTGAATGCCGCCTGCATGGCATTGGTGG  
ATGCAGGTGTGCCCATGCGGGCTCTCTTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCTCGTGCTGG  
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC  
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCCTGGCTGCGGCCAGGCCGCTTCGC  
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTGAGGCAAGCTGGGGCAAGGGG  
CCGCTCCCATTCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCAGCCTTGCCCTCTCTGACC  
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCAGGGGCTCCTGTGGGGAGGCCTTGGCCTGTGACAGCCCCAG  
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA  
ATTAATTCACCTTAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5455**

MEEETHDAKIRAENG TGSSPRGPGCSLRHFACEQNLLSRPDGSASFLOGDTSVLAGVYGPAEVKVSKEIFNKAT  
LEVILRPKIGLPGVAEKSREERLIRNTCEAVVLGTLHPRTSITVVLQVVS DAGSLLACCLNAACMALVDAGVPMRA  
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDTELQQCLAAQAASQHVFRFYR  
ESLQRRYSKS

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**FIGURE 5456**

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT  
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTTTCATC  
TCTGGATGACAAGCCCCAGTTCCCAGGGGCTCGGCGGAGTTTATAGATAAGTTGGAATTCATCCAGCCCCAACGT  
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCCAGCGAGGACCCCCACCT  
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC  
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGCACGCACGTGGGGAGTGCCGCCGC  
CCTGGACAACACGGACCTGGTGTTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCTGGA  
ACTATTATGSGCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG  
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC  
AGCCAAGCGGGCCAATGCCAACAGGGTCGTATCTGTTACTTCGGCGAGGGGCGAGCCAGTGAGGGGGACGCCCA  
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCATCATCTTCTTCTGCGGGAACAATGGCTACGCCATCTC  
CACGCCACCTCTGAGCAGTATCGCGGCGATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG  
CGTGGATGGTAATGATGTGTTTGCCGTATACAACGCCACAAAGGAGGCCCCGACGGCGGGCTGTGGCAGAGAACCA  
GCCCTTCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTTCAGCGTACCGCTC  
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACTATCTGCTGAGCCAAGG  
CTGGTGGGATGAGGAGCAGGAGAAGGCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC  
CGAGCGGAAGCCCAAACCCAAACCCCAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCGCCAGCTCCGCAA  
GCAGCAGGAGTCTCTGGCCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA  
CCTGCTCAGCCACCCCAACCCATCCTCAGCTACCCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG  
ACAGCACACCACTGTCTTCCCCAGTCAGCTCCCTCTAAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTACCC  
CTGCTCCTCCCGGCTGTTACATTGTCAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTAGCCCCCTCTTC  
ACCTGTTGTTACAGTGCTTCTCCCAGGGGCTGGGTGAGGGCACATTCAGGACTAGAAGCCCCCTCTGGGCATGGG  
GTGGACATGGCAGGTACGCTGTGGAATTGCGCAGGTGCGAGTGCCAGCAGAGGTCACGAATAAACTGCATCT  
CTGCGCCTGGCTCTCT

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**FIGURE 5457**

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQFSSLDDKPQFPGASAEFIDKLEFIQPNVISG  
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRILYESQRQGRISFYMTNYGEEGTHVGSAAALDN  
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAANKR  
ANANRVVICYFGEAASEGDAHAGFNFAATLECPPIFFCRNNGYAISTPTSEQYRGDGAARGPGYGIMSIKVDG  
NDVFAVYNATKEARRRAVAENQPFLEAMTYRIGHHSTSDSSAYRSVDEVNYWDKQDHPISRLRHLLSQGWWD  
EEQEKAWRKQSRKVMFAFEQAERKPKPNPDLFSDVYQEMPAQLRKQESLARHLQTYGEHYPLDHFDK

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**FIGURE 5458**

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT  
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCCTGACCAACTAT  
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT  
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCCTTTTTCATCCTGAAGCAGGGAGGCGCAGTC  
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA  
GTGCCTGTGGAAGCTGTGGAIGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCTGAAG  
GAGCTCCAGTCCCTTGTGCTGTCAGCGCTGCTCCACGTGGACGACTGGTGTCTCAGCCGCTCTACCCACTGGCC  
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC  
CAGAACCTCCGAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATATTGGTGGAG  
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT  
CGGGACACAGCCAGCCCTGTCCCTGCCTTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT  
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG  
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC  
ACCCTGTTCAGGCAGCCCTTTCCATGCCCTGTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG  
AGAGCCACACTCACCTTGTTCAGGAGACTCTTCTCAAACGTGTCCTTAAGTGAGTGCACTGCCATTTCTTGCAGGGA  
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT  
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCAGGCCCATAGTATTGCTGG  
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTCAGTTGGCAGTTTTTTGAAGGGGATAAGCTTTGT  
CAGTAGAGGGCACCAAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGGTTGTGCTTCTGCC  
TCTGGACGCCGAGTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACCAGGCGGTCAGCAGCTGCCCTTGG  
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC  
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCAGTGT  
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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**FIGURE 5459**

MAAPWASLRLVAPMWNGRIRGIHRLGA AVAPEG S Q K K K R T I L Q F L T N Y F Y D V E A L R D Y L L Q R E M Y K V H E K N R S Y T  
W L E K Q H G P Y G A G A F F I L K Q G G A V K F R D K E W I R P D K Y G H F S Q E F W N F C E V P V E A V D A G D C D I N Y E G L D N L L R L K E L  
Q S L S L Q R C S H V D D W C L S R L Y P L A D S L Q E L S L A G C P R I S E R G L A C L H H L Q N L R R L D I S D L P A V S N P G L T Q I L V E E M  
L P N C E V V G V D W A E G L K S G P E E Q P R D T A S P V P A

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**FIGURE 5460**

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT  
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA  
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT  
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA  
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAG  
ATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG  
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC  
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA  
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGAAGATAAACTGAAATGCACCAAAGG  
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTTCTCCTTTCGCCGCCCTCCTTCCGCCGCCCGCT  
CCTTCCCTGTATCTTTTAAAGTTTCTTCCCTACCCTGTCCCCATTTCTGGTAAGGTTTCTAGGAGGTCTGTTA  
GGTGATACCTACAGCTTATTGGCTTAATATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAAT  
AGAGAAATCAATAGTGCAACTGTTTGATAATGAATATTGACAAGTGTCTTTTGAATAAAGAACCAGTCC

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**FIGURE 5461**

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC  
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG  
CGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC  
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG  
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCC  
AGGAAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT  
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTCGCCGCCCTCCTTCCGCCGCCCGCTCCTTCCCTGTGTC  
TTTTTCACCAAACCTGTCCGCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT  
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAAATTACCTCTTT  
TGTTGTTTTGTAGCAACCTTTTGTAAAACATTCCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTC  
TCACTTT

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**FIGURE 5462**

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG  
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA  
GAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG  
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG  
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG  
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG  
TGATCATTGAAGGAGACTTGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG  
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGTCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA  
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGCCACTGATTTAGCCATGTGAAACTCATCTCATTACCTTTTCT  
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT  
AGCTTATGTACAAAACTTT



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**FIGURE 5463**

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG  
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC  
TTAAAAGATGAAGAAAAGATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT  
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG  
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT  
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAGGAG  
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA  
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG  
TAGAACGCCTCAGTCTCACCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC  
CTTTGGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTAAGTTGTGATG

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**FIGURE 5464**

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLREAKHIAEEADRKYE EVARKLVIIEGDLE  
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT  
IDDLEDKCLKCTKGEHLCTQRM LDQTLLDLNEM

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**FIGURE 5465**

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG  
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG  
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG  
TGATCATTGAAGGAGACTTGAACGCACAGAGGAACGAGCTGAGCTGGCAGAAATCCCTTTGCCGAGAGATGGATG  
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA  
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT  
CGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA  
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT  
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCGAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT  
GGAAGGCTGCTTTCTCCTTT

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**FIGURE 5466**

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA  
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG  
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT  
GGAAAAATTGAAGTGAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTCTAACCTTT  
GATGACCGTGAATCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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**FIGURE 5467**

MSKSECPEEPEQLRKLFIFGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY  
GKIEVTEIMTDRGSGKKRGFAFLTFDDRDSVGGYGGSSSSSYGSGRRF

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**FIGURE 5468**

CGCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCCTGGCTGGCAGCGCGGAGCCGCGACGATGCCT  
GGAGTTACTGTAAAAGACGTGAACCAGCAGGAGTTCGTTCAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG  
CTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG  
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG  
ATCTATGGGGGACGTCAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG  
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGCAAACTGACACCTCAGGGA  
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGGGTT  
AATAAATTGCCTCATTCGTAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5469**

MPGVTVKDVNQEFVRLAAFLKKSGKLKVP EWVDTVKLAKHKELAPYDENW FYTRAASTARHLYLRGGAGVGSM  
TKIYGGRQRNGVMP SHFSRGSKSVARRVLQALEGLKMVEKDQD GGRKLTPQGQ RDLDR IAGQVAAANKKH

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**FIGURE 5470**

GGGCGCCCCGCCGGTCACTTCCGCGCGGACACCAGCCTTGCAGAGCCCAGGGAGATGGAAGACTTCGCCCCGAGGG  
GCGGCCTCCCCAGGCCCTCCCGGCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG  
AACGAGCTGGAGACAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCCAGCC  
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC  
ATGCTGGGCTCACTGGGCCCCAAGGAGGCCAAGAAGGCCCTTCTGGACTTCTACCACAGCTTCTGGAGAAGACA  
GCGGTTCTCGGGTGCCGGTCCCTCCCAACGTGCGCTTTGAACTTGACCGCACTAGGGCTGACCTCATCTCCGAG  
GATGTCCAGCGCGGTTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCCGCGCAGCTGGAGGACTTC  
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTTGGGCGGGAC  
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATACC  
ATCTCTACCGACGAAGAAAAGAGTGTGCGGTGGTCAACGCCATTGGCCTGTACATGCGCCACCTTGGGGTGCGG  
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAATTTCTCCGGAAGAGGTGATGGGGAACCGGCGGTTCGGACGAG  
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA  
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG  
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTCTGCACCTCTGTCCCTGGAC  
AGCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGCCCCAATGAGCCTG  
GAGTCTTGGCGCCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGGAG  
CCGGGGCGGTTCGGGACTGGAGCTTGAACAGAAGAGCCTCCCGGCTGGCGGGAACCTCGTCCCCCAGACACCTG  
CACAGCCTGCCAAGAGCCAGGTGAAGCGGCAGGAGTTCATCAGCGAGCTGCTGGTGACAGAGGCGGCCACGTG  
CGCATGCTGCGGGTGCTGCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG  
CAGAACATCTTCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCTGATCGCTGATGAAGCGGAGG  
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGAGCTGCTGCTGGCCCGGTTTGATGGTGCTGAGGGCTCCTGG  
TTCCAGAAAATCTCTCCCGCTTCTGACCGCGCAGTCATTTGCCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG  
GACCTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCGCCGCGGTGCCGCCGCTGCAGCTGAAGGACATG  
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC  
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATTCTACACCAGCTCAACCAAGCCGTGCGT  
GACATGGAGGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCCTGGACTTGTCCACCTTCGGCAGAGCAGCGAC  
CCTATGCTGAGCGAGTTCAAGAACCTGGACATACCAAGAAGAAATTGGTCCACGAGGGCCCACTGACGTGGCGG  
GTGACTAAGGACAAGGCAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCTCCAGCGCCAGGAC  
GAGCGGCTGCTGCTCAAGTCCCATAGCCGACACTGACGCCACGCCCAGTGGCAAGACCATGCTGCGGCGCCGTG  
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAGCCTTCTACGTCTTTTTACCTGGGAC  
CAGGAGGCCCAGATATACGAGCTGGTGGCACAGACTGTGTGGAGCGGAAAACTGGTGTGCTCTCATCACTGAG  
ACTGCCGGAATCCCTGAAAGTCCCTGCCCTGCTCTCGCCCTAAGCCCCGCGCCAGCCGAGCAGCACCAGAGAA  
CCCCCTCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC  
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCGGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAAGTGCTG  
TCCCTGAAGCAGCTTCTGTTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCA  
GGGGCGGGCCCCCTGAGCCAGCAGGACCCAGGAAATCCAGGAGAACCCTGCTCAGCTTGGAGGAGACCATGAAG  
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTCTGTCCCC  
CAGCCTGGCTGCACTTGAGGTTCCCGCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA  
GGGACCACCCCACCCACACAGCTGCCGAGCATCTCACACCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC  
GCCTGGGAGGGGCCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTGG  
GGGACTCAGGGCTCCATTCTGGAGGGCACACGGTGACCCGGGCCATCTCAGTATTGCCTGTGGGGGCCACCCCT  
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTATACCCTGAATTGGAGGGTTTATTTTTTAATATATATTAT  
CTAAGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5471**

MEDFARGAASPGPSRPGLVPSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRFAHLMALLQHVALQFEPGPL  
LCCLHADMLGSLGPKEAKKAFIDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV  
GRQLEDFRSKRLMGMPWEQELAQLAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY  
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPATD  
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREPADAPLELGDSSPQGPMLES LAPPESTDEGAETESP  
EPGDEGEPRSGLELEPEEPPGWRELVPDTHSLPKSQVKRQEVISELLVTEAAHVRMLRVLHDLFFQPMACEL  
FFPLEELQNIFFSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFCSRQSFALQ  
LKAKQRKDPFRCAFVQEAESRPRCRLQLKDMIPTMQRLTKYPLLQSIGQNTTEPTEREKVELAAECCREILH  
HVNQAVRDMEDLLRLKDYQRRDLSHLRQSSDPMLSEFKNLDITKKLVHEGPLTWVRVTKDKAVEVHVLLLDLL  
LLLQRQDERLLLKSHSRTLTPDPGKTMLRPVLRITSAMTREVATDHKAFYVLFWDQEAQIYELVAQTVSERKN  
WCALITETAGSLKVPAPASRPKPRSPSSSTREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA  
TALRKVLSLKQLLFPAAEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEELEEEFCRLRPLLSQ  
LGGNSVPQPGCT

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**FIGURE 5472**

CCGCCGCAGCCTCTGTGCGGTGGGACCAACGGACGGACGGACGGACGCGCGCACCTACCGAGGCGCGGGCGCTGC  
AGAGGCTCCCAGCCCAAGCCTGAGCCTGAGCCCGCCCCGAGGTCCCCGCCCCGCCCCGCTGGCTCTCTCGCCGCG  
GAGCCGCCAAGATGGGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC  
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAGATGTCAGTGGAGAGGTCTGCCGAAATACAACA  
CAGACTGTGTGCAGGGTTTGACCCACAGCAAAGCCCAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTCACGC  
CACCGCTACCACCCCAGAGTGGGTCAAGTTTGGCCGCGAGCTCTTCGGGGGCTTCTCCATCTGCTGTGGATCG  
GGGCTATCCTCTGCTTCTGCGCTACGGTATCCAGGCGGGCACCAGGAGACGACCCCTCTGGTGACAACCTGTACC  
TGGGCATCGTGTGGCGGCGTGGTGATCATCACTGGCTGCTTCTCTACTACCAGGAGGCCAAGAGCTCCAAGA  
TCATGGAGTCCCTTCAAGAACATGGTGCCCCAGCAAGCCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAACG  
CTGAGGAGGTGGTGGTGGGGACCTGGTGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT  
CAGCCACGGCTGCAAGGTGGACAACCTCTCCCTGACTGGCGAATCCGAGCCCAGACTCGCTCTCCCGACTGCA  
CTCAGACAACCCCTTGGAGACTCGGAACATCACCTTCTTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG  
TGGTGGTGGCCACGGGCGACCGCACTGTATGGGCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA  
CGCCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACGGCGTGGCTGTCTTCTGGGTGTCTCTTCT  
TCATCCTCTCCCTCATTCTCGGATACACCTGGCTTGAGGCTGTCTCTTCTCATCGGCATCATCGTGGCCAATG  
TCCCAGAGGCTGTGCTGGCCACTGTCTACGTGTGTCTGACGTGACCGCCAAGCGCATGGCCCCGAAGAAGTGGC  
TGGTGAAGAAGCTGGAGGCTGTAGAAACCTGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCCCTCA  
CTCAGAACCGCATGACAGTCGCCACATGTGGTTTGACAACCAGATCCACGAGGCTGACACCACTGAGGACCACT  
CAGGGACCTCATTTGACAAGAGTTGCGACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG  
TCTTCAAGGGTGGTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC  
TCAAGTGATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCCT  
TCAATTCCACCAACAAATACCAGCTCTCCATCCATGAGACCGAGGACCCCAACGACAACCGATACCTGCTGGTGA  
TGAAGGTGCCCCGAGCGCATCCTGGACCGCTGCTCCACCATCCTGCTACAGGGCAAGGAGCAGCCTCTGGACG  
AGGAAATGAAGGAGGCCTTCCAGAATGCCATCCTTGAGCTCGGTGGCCTGGGCGAGCGCGTGTGGTTTCTGCC  
ATTATTACCTGCCCCGAGGAGCAGTTCCCAAGGGCTTTGCTTTCGACTGTGATGACGTGAAGTTCACACGGACA  
ACCTCTGCTTTGTGGGCTCATGTCCATGATCGACCCACCCGGGCGAGCCGTCCCTGACGCGGTGGGCAAGTGTG  
GCAGCGCAGGCATCAAGGTATCATGGTCAACGGCGATCACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG  
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCCGCCGGCTCAACATTCCCGTACGCCAGGTAAACC  
CCCGGGATGCCAAGGCCTGCGTGATCCACGGCACCGACCTCAAGGACTTCACCTCCGAGCAATCGACGAGATCC  
TGCAGAATCACACCGAGATCGTCTTCGCCCGCACATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTGAGA  
GACAGGGTGCATTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCCGCTCTGAAGAAGGCCGACATTGGGG  
TGGCATGGGCATCGCTGGCTCTGACGTCTCCAAGCAGGACGTGACATGATCCTGCTGGACGACAACCTTTGCCT  
CCATCGTACAGGGGTGGAGGAGGGCCGCTGATCTTCGACAACCTAAAGAAGTCCATTGCCTACACCCTGACCA  
GCAATATCCCGGAGATCACGCCCTTCTGTGTTTCATCATGGCCAACATCCGCTGCCCCCTGGGCACCATACCA  
TCCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGCTGCCGAAAGCGACATCA  
TGAAGAGACAGCCAGGAACCCGCGGACGGACAAATTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCAGA  
TTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTTACTTTGTGATCCTGGCAGAAAATGGCTTCTTGCCCCGCA  
ACCTGGTGGGCACTCCGGCTGAACTGGGATGACCGCACCGTCAATGACCTGGAAGACAGTTACGGGCAGCAGTGG  
CATACGAGCAGAGGAAGGTGGTGGAGTTACCTGCCACACGGCCTTCTTTGTGAGCATCGTTGTCGTCCAGTGGG  
CCGATCTGATCATCTGCAAGACCCGAGGAACCTGGTCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCG  
GGCTGTTTGGAGAGACGGCCCTGGCTGCCTTCTGTCTTCTGCCCCGCGATGGACGTGGCCCTGCGCATGTACC  
CTCTCAAGCCCAGCTGGTGGTTCTGTGCCTTCCCCTACAGTTTCTCTCATCTTCGTCTACGACGAAATCCGCAAC  
TCATCCTGCGCAGGAACCCAGGGGTTGGGTGGAGAAGGAACCTACTACTGACCTCAGCCCCACCATCGCCC  
ATCTCTTCCCGTCCCCCAGGCCAGGACCGCCCTGTCTAGTCCCCCAATTTGTATTCTGGGGGGAGGAGCCC  
TCTCTTCTGTGGCCCCACCTTGGCCCCCACCCTTCCACTATCTCTGCGCCCCCACTCTGGCTGGCTTCTCT  
CCCCTGCCCCAAACCTCTCTCTCTCTTTTCTGTGTCTAGTTTCTCTCCCTCTCTCACCCTCTATCCATTCC  
TCCCGCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTTCTGG  
ACAATTATCAATATATCATGTGGGGAGAGAG

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**FIGURE 5473**

MGDKKDDKDS PKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALT P P P T  
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDP SGDNLYLGIVLAAVVIITGCF SYYQEAKSSKIMES  
FKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLR I ISAHGCKVDNSSLTGESEPT RSPDCTHDN  
PLETRNITFFSTNCVEGTARGVVVATGDRITVMGRIATLASGLEVGKTP IAIEIEHFIQLITGVAVFLGV SFFILS  
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR  
MTVAHMFWDNQIHEADTTEDQSGTSFSDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCI  
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDR CSTILLQGKEQPLDEEMK  
EAFQONAYLELGG LGERVLGFCHYYLP EEQFPKGFAFDCDDVNFTTDNL CFVGLMSMIDPPRAAVPDAVGKCRSAG  
IKVIMVTGDHPITAKAIAKGVGI ISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNH  
TEIVFARTSPQQLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT  
GVEEGR LIFDNLKKSIA YTLTSNIPEITPFLLFIMANIP LPLGTITILCIDLG TDMVPAISLAYEAAESDIMKRQ  
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLED SYGQQWTYEQ  
RKVVEFTCHTAFFVSIVVVQWADLIICKTRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKP  
SWWFCAPFYSFLIFVYDEIRKLILRRNPGGWVEKETYY

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**FIGURE 5474**

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACCTGCAGAGGTGCCTGTGTCTCAGCCT  
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC  
AGGGCCCCGAGGAACAACAGTGGAGAAGCAGGCGGGGAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG  
CTCTTTCTCTACCCCCACCAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC  
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT  
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCACCGGCGAGCCACACCCCGAATCCTCTG  
CATTTCATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCTTTATCACCGGCGTACTCATGGGGTAGGG  
GGTGTCCCTCTGCCCCACAACACCAGTCCCACCAGAGGAACCTGTATTGGTTTCCCTGAGCCAGCCCCAGCAGAG  
ACTGGAGAGCCAGAGGCCCTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCGCTGCCCCAGGCACCTAC  
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCCTTGACGTGACCCGGCACCAACGTTTTGTGCATCGGCTG  
GAGCGGCGCCATAAATGCAGCATTTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACTGCGCACA  
CACACAGGGGAGCGGCCCTTCCCTGCCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCCGCCAC  
CGGCTCACACACACAGGAGAGCGGCCCTACCGGTGTGGGGACTGTGGCAAGGCTTTCACGCAAAGCTCCACACTG  
AGGCAGCACCGCTTGGTGCATGCCCAGCACTTCCCTACCGCTGCCAGGAATGTGGGGTGCCTTTTACCGTCTC  
TACCGCCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGGAGTGCCCCCGCTCCTTC  
TTGCTGCGTCCGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT  
GGGGCTGCCTTCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCCAGGCCCCACGGCGC  
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGGCCATGCAGCT  
GCTGGGCCTGGAGAGGTCTGGCTAAGGAGCCCCCTGCCCTCGAGCCCCACGGGCCACTCGTGCACCAGTTGCC  
TCTCCAGCAGCCCTTGGAAGCACTGCTACAGCATCCCTGCGGCCCTGCCCCGCCCGGGGCTTAGAGTGCAGC  
GAGTGCAAGAAGCTGTTTCAGCACAGAGACGTCACTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC  
CCATGTCCAGACTGTGGCAAAGCGTTCCGTACAGGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG  
CGGCCCTTTGCCTGTGAAGTGTGTGGCAAGGCCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGATCCAC  
ACAGGCGAACGACCCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCCAACCTCTGGAAGCACCGC  
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTTGGCCTGGCC  
GTCATGGAGACTGCTGTGGAGGCGCTACCCCTGTTGGAAAGCCATTGAGATCTACCCCTTGCCGAGGCTGAGGGG  
GTCCAGATCAGTGGCTGACTCTGCCCCACTTCTCTTTGGCACCTCCATTCCCTGTTGCTGAAGGCCCTCCAGCA  
TCCCTTAAGCATCTGTACATACTGTGTCCCTTCTCTTCCATCCCCACCACCTTGTAAAGTTCTAAATTGGATT  
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCTTGACACACATAAAGGTGCCCCCCCCACCTTCCACCTCTTAGCA  
CTGGTGACCCCAAAAATGAAACCATCAATAAAGACTGGGTTGCCAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5475**

MFKKKSHVRNHLRTHHTGERFFPCPDCSKPFNSPANLARHRLTHHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF  
PYRCQECGVRFRPYRLLMHRYHHTGEYPYKCRECPRSFLRLRLLEVHQLVVHAGRQPHRCPSCGAAFPSSLRLR  
EHRCAAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA  
SPAAPARRRGLECECKKLFSTETSLQVHRRHTGERPYPCPDCGKAFRQSTHLKDHRRHTGERPFACEVCGKA  
FAISMRLAEHRRHTGERPYSCPDCGKSYRSFNLWKRKTHQQQHQAQAVRQQLAEAEAAVGLAVMETAVEALPL  
VEAIEIYPLAEAGVQISG

TCTGAGAGCGCAGGCCCGGTGAGGCGGCAGGGCGGCCGACGGGCGCGGGACGGGACGGGGCAGCGAGGGCGCC  
 GGGAGCCGCGGCCCGGAATCGGGGCGCTTCGCCCGGGCCCCCAGCATGAAAGACCCCGCGGACACAGGGTTTG  
 CCTTCCCGGATTGGGCCCTACAAGCCAGAGTCGTCCCTGGCTCAAGGCAGATCCAGCTGTGGCACTTTATCCTGG  
 AGCTGCTGCGGAAGGAGGAGTACCAGGGCGTCATTGCCTGGCAGGGGACTACGGGAATTTCGTATCAAAGACC  
 CTGATGAGGTGGCCCGGCTGTGGGGCGTTTCGAAGTCAAGCCCCAGATGAATTACGACAAGCTGAGCCGGGCCC  
 TGCCTATTACTATAACAAGCGCATTCTGCACAAGACCAAGGGGAAACGGTTACCTACAAGTTCAATTTCAACA  
 AACTGGTGCTGGTCAATTACCCATTCAATTGATGTGGGGTTGGCTGGGGGTGCAGTGCCCCAGAGTGCCCCGCCA  
 TGCCGTCGGGTGGTAGCCACTTCGCTTCCCTCCCTCAACGCCCTCGAGGTGCTGTCCCCACCAGGAGACCCCG  
 GCTCACCACCAGCCTGCTCTTCATCTTTCATCTTCCCTCTTCTCGGCTGTGGTGGCCCGCCGCTGGGCCGAGGCT  
 CAGTCAGTGACTGTAGTGATGGCACGTACAGAGCTGGAGGAACCGCTGGGAGAGGATCCCCGCGCCGACCAACCG  
 GCCCTCCGGATCTGGGTGCCTTCGAGGGGCCCCGCTGGCCCGCCTGCCCATGACCTTGGTGTCTTCCGAGTCT  
 ATCCCCGGCCTCGGGGTGGCCCTGAACCCCTCAGCCCCCTCCCTGTGTGCCTCTGGCCGGTCTGGATCCCTGC  
 TGCCCCCTCAGCTCTCCCCGGCTCTGCCCATGACGCCACCCACCTGGCCTACACTCCCTCGCCACGCTGAGCC  
 CGATGTACCCAGTGGTGGCGGGGGGCCAGCGGCTCAGGGGGAGGCTCCCACTTCTCCTTCAGCCCTGAGGACA  
 TGAACCGGTACTGTCAGGCCACACCCAAAGCGTCTACAACTACCACCTCAGCCCCCGCGCCTTCTGCACTACC  
 CTGGGCTGGTGGTGGCCCCAGCCCCAGCGCCTGACAAGTGCCCGCTGCCGCCCATGGCACCCGAGACCCACCGG  
 TCCCCTCCTCGGCCTCGTCATCCTCTTCTTCTTCTTCTCCCATTCAGTTTAAAGTCCAGCGGCCCCCACTCG  
 GACGCGGGCAGCGGGCAGCTGGGGAGAAGGCCGTAGCCGCTGCTGACAAGAGCGGTGGCAGTGCAGCGGGGCTGG  
 CTGAGGGGGCAGGGGGCGCTAGCCCCACCGCCCCGCCACCACAGATCAAGGTGGAGCCCATCTCGGAAGGCGAGT  
 CGGAGGAGGTAGAGGTGACTGACATCAGTGATGAGGATGAGGAAGACGGGGAGGTGTTCAAGACGCCCCGTGCC  
 CACCTGCACCCCTAAGCCTGAGCCCGGCGAGGCACCCGGGGCATCCAGTGTCATGCCCTCAAGCTACGCTTTA  
 AGCGGCGCTGGAGTGAAGACTGTGCCTCGAAGGGGGTGGGGGCCCCGCTGGGGGCTTTGAGGATGAGGGTGAGG  
 ACAAGAAGGTGCGTGGGGAGGGGCTGGGGAGGCTGGGGGGCCCCCTACCCCAAGCGGGTGAGCTCTGACCTCC  
 AGCATGCCACGGCCAGCTCTCCCTGGAGCACCGAGACTCCTGAGGGCTGTGGGCAGGGGACCTGTGTGCCCCGC  
 ACCCCCCATGCTTCTTTTGTGCCTTAAGCCCCCTATGCCCTGGAGGTGAGGGCAGCTCTTGTCTCTTCCCT  
 CCTCCTCCCTTTCCCTCCCCACATTTTGATAAACTTTAATTTCTTTTTTTTAAAAATGGTGGGGGTGGGTGG  
 GTGCCCAGGGCTAGGGGCTATTCCCTGTCTCTGTGGGTTCTAAGCTCTGGGCAAATTGGTGGTAGGGGGAGGGA  
 GGGGGAAGTTAAGGGGGTACCTCCATTCTGGGGAATTTATATTGAATTGAGGCTTTGGCCTTTAACACCCAGGA  
 ACTTTTCTATTACAATCGCTTAGGAAGTAAAGCCTTGTCTCCCTCCCTGTTCTCTGCTCTTGTACCCTCTGAC  
 CCACCGCTCTGCCCCACTCCCAGCCCTCCTCAGCCCCAGCCCTGCCCCTGCCCTCCAGGGGGCCATGAGT  
 GCCTAGGTTTCTCATACCCACAAAGTTCACAGAGGGGAGGGGAGGACAATTTTATAATGAACCAAAAATTCCAT  
 GTGTTGGGGGCTGGGGGGCGAGGAGGGTGAAGGGTGCAGGCCCATGGGCCACAAATCTCTACAAGTGCTGTCTAT  
 CCTCTCCCACTCCCCACCCAGCACCGGTCCAACCCCTTCATCCCCAGCTGCTCCTAGGACTGGCCCATGGGCA  
 GGCGGGTGGGGGGATGGGAAGGGGGTGCCTGAAACCAAACTGGAAGCCCCCTCTGCCTCCAGCTGGGGCCTCT  
 GGGGTGGGGTGGGGGGCTGTGGTCAAGCCTTATTCTGTATTGGGGACTGAGGGTGGGGGGAGTAGAGGGGCGCT  
 GGAGAATGTATTCAAAACAATAAACTTTGGACCTTTGGAAAA

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**FIGURE 5477**

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIWQGDYGEFVIKDPDEVARLWGVKCKPQ  
MNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSGGSHFRFPSTPS  
EVLSPTEPRSPACSSSSSLFSVAVARRLGRGSVSDCSDGTSELEEPLGEDPRARPPGPPDLGAFRGPPLARL  
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPQLSPALPMTPTHLAYTPSPTLSPMYPSSGGGGPSGGGG  
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPLVVPQQRDPKCPLPPMAPETPPVPSSASSSSSSSSSPF  
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVETDISDEDEED  
GEVFKTPRAPPPAPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDGEDEKDKVRGEGPGEAGGPL  
TPRRVSSDLQHATAQLSLEHRDS

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**FIGURE 5478**

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG  
GCCCATCTCAGCCCCCTTCCTGCAGATGGCGCATCCCCTGGCAGGGGCTCCTGCTCACAGCCTCACTTTTCACCTT  
CTGGAACCCGCCACCCTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT  
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG  
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA  
CCCCAATGCATCCCTGCTGATGCGGAACGTCACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT  
AAATCTTATGAGTGAAGAAGTAACTGGCCAGTTCAGCGTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA  
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAACCTGAGACTCAGAACACAACCTACCT  
GTGGTGGGTAATGGTCAGAGTCTCCCGGTCACTCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT  
ACTCAGTGTCAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCAGCGAGTGCAAACCTCAGTGA  
CCCAGTCACCCTGAATGTCTCTATGGCCAGATGCCCCACCATTTCCTTCAGACACCTATTACCATGCAGG  
GGTAAATCTCAACCTCTCCTGCCATGGCGCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCAATGGCACATT  
CCAGCAATACACACAAAAGCTCTTATCCCCAACATCACTACAAGAACAGCGGATCCTATGCCTGCCACACCAC  
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCACAGTCTCTGATGCTTAGTACAAGGAAGTTC  
TCCTGGCCTCTCAGCTAGAGCCACTGTCAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT  
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTATTCTTCCTCAAAGCATTGCAATCAGC  
TACCATTCAAAATTGCTTCTTCTCAAGATTTATGAAAATACTCTGACGAGTACTCTGAACACAAGTTCCTGA  
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA  
AACACAGAAGGAAAAAAACATGAATTTCAATTGAATAAATAATGAGGATAATGTTTTTAAGATTTTTTTTTT  
TTTTTGAGATGGAATCTCGCTCTGTGCCCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC  
CTCCTGGGTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG  
CTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCCTGCCT  
CAGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAGATTTTTTATTTGAAAA  
ATTGCCAATTCTTTAAGTGTTTTCTTTTTAGATTATGAATTTCTTTATCTTTTAAGCTATCTATACCTTACTG  
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGCTCCCTACCTGACTGCCACAGAAC  
TGGGCAACTATTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTCAGTGAGAACTGTCTGT  
CTTTATAATGGGATATAGTTTAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATATTTGAGAAAAT  
ACAGAGAATGATAGATTAAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTTACGTATGAGATCCTTTAGT  
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTCTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC  
AGACTCCTAGACTCACTTGTTCTCACTGTCTGTTTAATTTAACCAGGCATGCAATGCTAGATAATAAAATTGC  
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5479**

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLL VHNLPQDPRGYNWYKGETVDA  
NRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS  
SNN SNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTLTL LSVTRNDVGPYECEIQNPASANF  
SDPVTILNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH  
TTNSATGRNRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

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**FIGURE 5480**

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG  
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCCAGGAAGCAGCGGCGGGAGCGCACCACCTTCACCCGGAGCCAA  
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCATGCCCCTGAGGAGGTGGCTCTGAAG  
ATCAATCTGCCTGAGTCCAGGGTTCAGGTTTGGTTCAAGAACCGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG  
CAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCGGCCTGCCAAGAGGAAGCGGGGCACGTCCCCA  
AGACCCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGATTCTACAGTCCCCCTCTGCCCGGGCCCCCTCA  
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCTTTGCCTGAGGCGCAG  
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT  
TTCTGCTCTTCCCCCTCCGCCTATGGGTCTCCGAGCTCCTATTTTCAGCGGCCTAGACCCCTACCTTTCTCCCATG  
GTGCCCCAGCTAGGGGGCCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCTTGGCCCAGTCCCCC  
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC  
TGGAATTACCTACAATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

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**FIGURE 5481**

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAKTQYPDVYAREEVALK  
INLPESRVQVWFKNRRRAKCRQQRQQKQQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS  
GSPTTAVATVSIWSPASESPLPEAQRAGLVASGPSLTSAPYAMTYAPASAFCSPPSAYGSPSSYFSGLDPYLSPM  
VPQLGGFALSPLSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFIIL

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**FIGURE 5482**

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCCT  
GGGGCTGCGGGCCACTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGAGGCCCAAGAAATAAGAAGCGGGGCTG  
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCAGTTCTTGGAAAGACGTGCGGCTACAGGAGCGCAC  
GAGCGGTGGCTTGTTGTCAGAGGCCCCAAATGAAAACTCTTCTTCTGGACACTGGCTCCAAGGAAAAAGGGCT  
GACAAAGAAGAGAACCAAAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCTCGA  
GAACACATCCAAAGTCCCTGCCCCCAAAGACGTCTCGCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA  
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCGGCTCCT  
CAACCCCTTCTGCAACAAGGGCCAAGCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC  
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTCTTGGAGCAGACCAAGAAGAAAGGAGTGAA  
GCGGCCAGCACGCCTGCACACCAAGCCGTCCAGGCACCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCCTACAA  
TCCATCCTTTGAAGACCACCAGACCCTGCTCTCAGCGGCCACAGAGGTGGAGTTGCAGCGGCAGAAGGAGCGGA  
GAAGCTGGAGCGGCAGCTGGCCCTGCCCCCACCAGGAGCAGGCCGCCACCAGGAGTCCACATTCCAGGAGCTGTG  
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAGGGGGAGCCAGGCCAGGGCGAGGGGCCGGAGGCTGGGGATGCCGA  
GGTCTGTCCACGCCCCCGCCCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGT  
GCACAGGCTGCGGGTACAGCAGGCCGCTTGCGGGCCGCCCGGCTCCGGCACCCAGGAGCTGTTCCGGCTGCGCGG  
GATCAAGGCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCAGAGCGGCGGCAGGCCGCGGGAGGC  
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA  
GCTGACAGACTCGCTCAGGACCCTGAAGCCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCAGAGGAG  
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT  
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

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**FIGURE 5483**

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTACGCTGGCTGAAGCGGGGCGGGGCACGGGGCC  
AGCAGCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG  
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGCTGG  
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCCGGCTCCCGCG  
TGGGGCCTGAGCCCACCACCGACTGCTTTGTGGCCGTATGCACGGGGACACTGAGGGCACCGTGCCCGGCAACG  
CCCTCGTCGTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCTTTCGAAACACCTTCCTCAACAGGTTTCATGT  
GTGCCCAGCTCCCTAATCAGGTCTTGAGAGCATCAGCATCATCGACACCCCGGTATCCTGTGGGTGCCAAGC  
AGAGAGTGAGCCGCGGCTACGACTTCCCGCCGTGCTGCGCTGGTTTCGCGGAGCGCGTGGACCTCATCATCCTGC  
TCTTTGATGCGCACAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA  
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT  
GGGCGCTGGGCAAGGTGGTGGGCACGCCCAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC  
TCGTGCCCCGACAACCGGCCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCCGCGACATCCAGGGCCTGCCCCGGC  
ACGCAGCCTTGCGCAAGCTCAACGACCTGGTGAAGAGGGCCCCGGCTGGTGCGAGTTACGCTTACATCATCAGCT  
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAACAAGAAGAAGCAGCTGATCCTCAAAC TGCCCCGTC  
TCTTTGCGAAGATTGAGCTGGAACATCACATCTCCCCTGGGGACTTTCCTGATTGCCAGAAAATGCAGGAGCTGC  
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC  
ACGACATCGCCAAGCTCATGCCCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGACGGGGGGCG  
CTTTTGAGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT  
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG  
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC  
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTTCGCGCTGGCCAGCCACCTCA  
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCCCAACCTGCCCGCTCGCCTGGTGCCACCCTCCAAGCGACGCC  
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG  
CACACCCCTGCTCCGGCTCACACACGCCCTGCCCTGCCCTCCCTGCCAGCTGTAAGGACCGGGGGTCTCCCTCCT  
CACTACCGCCAGACACCCCGGTGGAAGCATTTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC  
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT  
CATTCAAATATTTATTGAGCACCTACTATGTGCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA  
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAAAACACACA  
CTAATTCCTGGCAGGGCCCCCAGCCCCCTCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

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**FIGURE 5484A**

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG  
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTCTTTTTTAAATTTTTTCTCACTGCGTGTGCCAGGCTG  
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGTGAGATTACAAGCGTGAAC  
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG  
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTCTTCCACCTTTCCCGGCTGCAGCTCCATGTGCAAGAAG  
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCCAGTGTGGACCTAGACTTCTTGAAGATGACA  
TCCTGGGCTCTCCTGCGACAGGGGGCGGCGGGGGGCGAGTGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC  
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC  
TGCCACCCCTGCAGCCTGCGGATGGCGGGGAGGCCCGACGGGCGCTGGAGGGGACGCGCCGTGGCTGCGGGG  
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCGCCTACCGTGTGACCCACAGGCC  
TGGTGCGCCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTGACGCTGTGGGCTGGGCAATG  
TGACACTGCAGCCCATCCCGGCTTCAAGGCCCTGCCAATGGCAGCCCTGGGGGTGCCACGGCGGCCACACTGG  
GCCTGGCGCCCATCCAGGTGGTGGGCGAGCCCGTCATGGCGCTCAACACGCCACCTCCAGCTCCTGGCCAAGC  
AGGTGCCCGTCAGCGGCTACCTGGCCTCGGCGGCTGGCCCCCTCGGAGCCCGTGACGCTGGCGTGGCCGGGTGTCT  
CGCCACAGGGGGCTGGCCTGGTCATCCAGAAGAACCTCTCGGCCGCTGTGGCCACCAGCTCAATGGGAACCTCTG  
TGTTGCGAGCGCGGGGGCGCCTCGGCTCCACCGGACGCCCTCGGGACAGCCGCTGGCGGTGCCCCAGGCC  
TCGGCTCGTCGCCACTGGTCCCGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCG  
CGGGGGTGTGCGCCCCAAGCTCTACCAGCTGACGCCCAAGCCGTTTGCGCCCGCGGGCGCCACGCTCACCATCC  
AGGGCGAGCCGGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTCATGGCGGCGGGGAAGGCGG  
GCCAGAACGTGGTGTGTGCGGCTTCCCCGCGCTGCGCTGCAAGCGAACGTTTCAAGCAGCCACCGGCCACCA  
CCACCGGAGCGCCCCCGCGCAGCCCCCGGGGCGCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA  
GCAGCATCGTCATCCCCGCCCAGCACATGCTGCCGGGCCAGAACCTGCTTCTACTGCTGGCGCCCCGGCGGTCC  
AGCTCCCGCAGCAGCTCTCAGCCCTGCCGGCCAACTGCGGCGGCGAGATCCTGGCGGCCGCTGCCCCCCACACAG  
GTGGACAGCTCATCGGAACCCATCCTCACAAACCAGAACCTGGCGGGCCCACTGAGCCTGGGCCCCGTGTGG  
CCCCCACTCCGGGGCCACAGCGCGCACATCCTCTCCGCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC  
AGATGCCCCGTGTGCTGGCGGCGGGCAGCCTGCCACGCAGAGCCAGCCAGCGCCCGCGGGCGCGGCCACCA  
CTGTCTCCAGGGGTCAACCTGCCCGCCAGCGCGTGGCCATGCTCAACACCCCGACGGCCTGGTGCAGCCGG  
CCACCCCTGCCGCTGCCACCGGGGAGGCCGCGCCTGTCTCACGGTGCAGCCTGCCCGCCAGGCGCCCCCGCGG  
TCAGCACACCCCTGCCCTGGGCTCCAGCAGCCGAGGCGCAGCAGCCCCCGAGGCCCCACCCACAGGCCG  
CCGCCCCGCTCAGGCCACACCCCGAGCCAGCCCTGGCCTGGCGTCTAGCCCGGAGAAGATCGTCTGGGGC  
AGCCGCCCTCTGCCACCCCGACGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTGCCCCAGGAGAGGCC  
AGCAGCCCTCTCCGCAGAGGGCCCCACCTCTCCGTGCTGCTCGGTGCTAGTCAAGCGCCCGCTCCCGCCC  
AAGACCCAGCCCGAGCCACCCCGCTCGCCAAAGGAGCTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCCC  
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCGCTGAAGGGCCCCAGGCCCTCTTCGTCCCGTCACTACCTC  
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCCGCGGCCCTTCCGCCCCACCTCCC  
GGCCACAGAGTGTGTCCCGCCCTCCCTCAGAGCCACCTTGACCCCTTGCCCCCACCCAGGCCCCCCCAACTC  
TGCTTGGCATCTTTGTTCATCCAAAACAGCTAGGCGTTCCCCCGCTGCCAGCAACCCGGGCCCTACTGCCCCAG  
GCCCCGCGCAGCCGCTCTCCGCCCCAGTCCAGCGCGCTGAGGGACCGCTGCCCGCAGCCCCCAGCTCCCTC  
CATCTCCACCTCCTCTGCTGTGGCCTCCTCCTGAGACGTCCTCCAGGTGCGCAGCCCTACGCCATCCGACT  
TCCAGCTCCAGTTCACCCAGCCAGGGGCCCCACAAGTCCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG  
AGCCGGCAGCACCCCCCAGCGCTCCTCGGACCTTCCAGATGGTGACACCCCTTCCAGCGCTGCCCCAGC  
CGAAGGCTCTTCTCGAGAGATTTACACAGGTGCCGTCCGGAATCATCCTCCAGAACAAGGCTGGGGGGGCCCTG  
CCGCCCCGAGACCTCCACAGCCTGGGGCCCCCTACACAGCCCCGCTGCGTCTGTGCTGGTCACTGGGCAGGCC  
CATCTGGGACCCCCACTGCCCCAGCCACGCCCCCGCCCCGGCACCATGGCCGCCACAGGCTCCCTCCTCTGC  
TTCCAGCCGAGAACAAGGCTTTTGCCAGCAACCTCCCGACCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG  
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACCTGAGTGGCCTGAAGAAGCCCCCAGCCTTACGCCAGCAAGG  
AAGCCTGTTTCTGGAGCATTGACAAACACAGGGCTCCGTCTGCAACCCGACTACAAGACGGCCTTCCCT  
CCTTTGAGGACGCCCTGCATCGCCTCCTGCCCTACCATGTCTACAGGGCGCCCTCCCTCCCCAGTGACTACC

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**FIGURE 5484B**

ACAAAGTGGACGAGGAGTTTGAGACGGTCTCCACGCAGCTGCTGAAACGCACCCAGGCCATGCTCAATAAATATC  
GGCTCCTGCTCCTGGAGGAGTCCCGGAGGGTGAGCCCCTCAGCGGAGATGGTAATGATCGACCGAATGTTTCATT  
AGGAGGAGAAGACCACCCTTGCCCTTGATAAACAGCTGGCCAAGGAGAAGCCGGACGAGTACGTGTCTTCTCCC  
GCTCGCTCGGCCTCCCCATCGCAGCCTCTTCCGAGGGTCATCGGCTTCCCGGCCACGGCCCCCTGTCGTCTTCAG  
CTCCCGGGGCTCCACCCAGCCCCCTCCACACCTGCCCACCAAGCTTGTGATCCGGCACGGCGGGGACGGCGGCT  
CCCCCTTCGGTCACTGGGCGCGGGCTCCTCCTCCTGTCTCCTCTTCTCCTCCTCCTCTGCCGCTCCTCCT  
TGGACGCCGACGAGGACGGCCCCATGCCCTCCCGCAACCGCCCGCCCATCAAGACCTACGAGGCCGGAGCCGCA  
TCGGGCTCAAGCTCAAGATCAAGCAGGAAGCCGGGCTCAGCAAGGTCGTGCACAACACGGCCCTGGACCCCGTGC  
ACCAGCCCCCGCCACCCCCGCTACCCTCAAGGTGGCCGAGCCCCCGCCACGGCCGCCACCACCACCGCCGCCA  
CGGGCCAGATGAACGGCACGGTGGACCACCGCCGCTGCCGCCCCGAGCGCAAGCCCCCTGGGCACCGCCCCG  
ACTGCCCGCGCTGCCACTGCGCAAGACCTACCGCGAGAAGTGGGGGGCCCTGGCGCGCCGAGGGGACGCCCCG  
CAGGCAGGGCACGGGGAGGCAGCCCGCGCGCTGCCCGCCAAAGTGGACGAGGCCACCAGCGGGCTCATCCGCG  
AGCTGGCGGCGCTGGAGGACGAGCTGTACCAGCGTATGCTGAAGGGCCCCCGCCAGAGCCCGCAGCCAGCGCG  
CCCAAGGCACCGGGGACCCGACTGGGAGGCGCCGGGCTGCCCCCTGCCAAGCGGCGCAAGTCCGAGTCGCCCCG  
ACGTGGACCAGGCCAGCTTCTCCAGCGACAGCCCGCAGGATGACACGCTCACCGAGCACCTGCAGAGCGCCATCG  
ACAGCATCCTGAACCTGCAGCAGGCCCCCGGGCCGACGCCCGCGCCCTCGTACCCCCACGCTGCCTCGGCCGCA  
CCCCCGCATCCCCGCGCCCCCTGCACAGGCCCGAGGCCTACCCACCCTCCAGTCACAACGGTGGCCTCGGCCCA  
GGACGTTGACCAGATAACACCGGGCGCCTCCCCCTCCCCGTCCCCCTCCTCCCGAAGACGCCGGGACAGTCGGGT  
GTCCGCCCTCAGCCTCCTGGGGACTCGAGCCGGGATCCCCTGACGGTTTTTCTTGCCCTAAGTTATTTAGTAC  
AAAGGCCTCCTTCCCTGCCGCTGCTTCAGCTGGGTGCTGGGGGTGGGCGTGGATTAGGGAGGGGGCTGTGA  
TGTAACAGTCTCCCCTGCCAAAGGAGGGGCAAAGTGTGTGTGCTAGTTCTGTCTTCTCCATTCTTGGCACAC  
TCTGCCCTCTGTCCGGGGGACACGCGCATGTGTTGCCAGGGATGGGGCCACCGGTTGATGCCAACGCTCCGG  
GTGCTGTCTGTGTGTGGCTTCTCAGATGGTGGAGGTGCTGGGAGCTGGCAGGCTCCTTCCAGACAGTCTC  
AGCCTCTCCCCGCGCCCCCAACAGGCTGTCAAACAAAACCGGAGAGGGGTGGGGGAGCCAGCCTCCAGCGTG  
CTGTGCCCGCAGGCACCCGTGTGACATCCGCACGTCCAGCTCCGTGACCTGTGTGTGTGTGTGTGTGCACAAGTG  
AGTGAGAGATTTGAAACGCCCCACCCCTCGACTTTGAAATCTGAGCAAAACAAGAACTGGGGTCTTCTCTCCCC  
CGAACCTCTCCCCAGCTAGTCTTCCCTCTGTTCTTCTGCTCCAGCCGCCCGCGCCAGATTTTGAAATCTCGGA  
GACAAACTAGTACTGTAAGATAAATTTTTTGTACTGTATTTATTGTGTATAACGATTTTTTTAAAGGAGAAT

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**FIGURE 5485**

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA  
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTCTCTGGCC  
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAACATGTTCAAAATGGCCA  
AAAAGTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG  
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCAAGAGGCCATTAACTGTTTGATGC  
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT  
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG  
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG  
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT  
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC  
TGTTCCAGCTTTCTCTGATTCCCGGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCCACGAGGAGCAGAATG  
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCAGTGGCTCACCACCATGCTGC  
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTCCCCGTCT  
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG  
GCAGGCTCCTCTTCCCCAGCCCCGGGAGCCTCCCCAGCTTCTGTCAGCCCCGACCTCTCAGGTTAGACCCTGG  
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTCTTGG  
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC



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**FIGURE 5486**

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA  
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCCTGTGGGGACTGGAGGCCAGAAACGGCTGCGGG  
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA  
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCCAGAAGATCCCGGAGCTCAGTTCTTGATTGCTACTGGGT  
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG  
ACACTGAGGATATAGAGAAGAAACCAGAGTCAATTTTCACTCAATTCGATGCTGTGTCTGACTTGTCTGCTCCA  
GGGATGTCTAGTTAAAGTTGACCAGATCTGTCAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTGGCT  
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAATAAGTTGCCAAAGTTAGCC  
AAGGAGTAGAAGATGGGCCCGACACCAAGAGAGCAAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG  
TGGTCTTCTGCCCTGTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA  
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCAGTTCTGATA  
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCCTGACC  
TGCTTCTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG  
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCCCTCCTCACAACAACCTTCTTCTTCTCGATGGCATGAAGG  
GGAATGGGATTGTGGAGTGCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT  
GCCACCTGTATTCCCTGTCCCTTCCCTTCATGAAGGCATCTCCAGGCAAGGAAAATAAGTCAATTTGGCCCGAT  
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG  
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAAGGCTGCCTGTCTATCCCGGGCCTGCCAGCTCCCTGAGTGAT  
GAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGCCCTCTGGGGCATTG  
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTACCTTCTTGGACTTATTCCCCA  
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCAGGCCCATGAGGCACCAAGTGAAGCA  
CAGCTCCAAGTTTCAAGCAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGA  
CCCTGACAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG  
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCTGCAAGTTGAGTATTAGAGAGCTTG  
TCTTTCAAGGCAGGTTCTGGGGCTTCAAGGCTAGGAGGGAGGAGCCTGCCCTTTTAACAGAACCCAGTCACAT  
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTCAAGGCTATGTTGGTCTTTGTTTACCTCCTAAACCACAGCTG  
TTTGTGTTTACATATGTTGTGAATTTTCTTGGTTCTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA  
TTTGCTTGTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTACAGCCT  
GAGGCTCTA

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**FIGURE 5487**

GTCATTGGCCCGATACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC  
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTCATCCCGGGCCTGCCAG  
CTCCCCCTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGC  
CCTCTGGGGCATTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTGTACCTTCTT  
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCATGAGG  
CACCAGTGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG  
AGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAG  
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTTCAAGGCAGGTTCTGGGGCTTCAGGGCTAGGAGGG  
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

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**FIGURE 5488**

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCGCCATGATCC  
GCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA  
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC  
GGAACTTTAAAGATCATTTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC  
TGGCTTACCTGGAGGCCATTCACTTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAACTGGACC  
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTCCTGGCTGGCGAAATCCGAGAGACCAGCC  
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGCCCCGG  
CCCCCTCTGGACTCGCCTGCTCGCTTCCCCTTCCCAGGCCCGTGGCCAACCCAGCAGTCCTTCCCTCAGCTGCCT  
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG  
GGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTGCCGTTGTCTGTGATGCCATAAGCGTCTGTGCGTGGAGTC  
CCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 5489

GGCACGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG  
GCCCCATCCCCACCTCCCGGACCTAAGAGCCTGGGTCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATT  
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGTCCCGCCTCCCGGATCCAGGCGTCCGGGATC  
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA  
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTT  
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCAGCCTGGGGAATTTAAACACTCCAGCTTCCA  
AGAGCCAAGGAACCTCAGTGTGTGAACTCACAACCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT  
ACTCAACTCAGTCTAGGAACGTCGGGTCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGTAAGA  
AACCCCGGTGCTTCCCATCATCGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGGGAGCCACCGC  
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCA  
GGTGCGCCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG  
ACTGGGGGTGTCGGGGGCGGGGGTGGCGTGGCGTGGGCCCCGAGCGCTTGAGCGCCTTCTGCTTCCCGGGCGA  
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGGCGCTGGTGGTGTGACAGTTGATCGGCGGCGCCGCCAGCCT  
GGACCCCGCGCGCTCGGCCGTCTGGGCGCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTGGC  
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCGCCTCCGCCGCCATCAACGCTCCGTGGGAGCCGC  
GGGCAGTGCCGAAAATGCCCCCAGCAAGGAGGTGCTCGATTCTGCTTCTGGATCTTGCGAGAAATATCTTCCCTTC  
CAACCTGGTGTGACGAGCCTTTTCGCTCATACTCTACCACCTATGAAGAGAGGAATATCACCGGAACAGGGTGAA  
GGTGCCCGTGGGGCAGGAGGTGGAGGGGATGAACATCCTGGGCTTGGTAGTGTGTTGCCATCGTCTTTGGTGTGGC  
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT  
GGTCTCCTGGATCATGTGGTACGCCCTGTGGGCATCATGTTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA  
TGTGGGTTTACTCTTTGCCCGCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT  
GGTACTGCCCCCTCATCTACTTCTTCAACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT  
GGCCACTGCCTTTGGGACCTCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGGCTGGAGGAGAATAATGG  
CGTGGCCAAGCACATCAGCCGTTTCATCCTGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA  
GTGCGTGGCCGCGAGTGTTCATTGCACAGCTCAGCCAGCAGTCTTGGACTTCGTAAAGATCATCACCATCCTGGT  
CACGGCCACAGCGTCCAGCGTGGGGGCAGCGGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCTCGA  
AGCAGTCAACCTCCCGTTCGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT  
CCTCAATGTAGAAGGTGACGCTCTGGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC  
AGAGCCTGAGTTGATACAAGTGAAGAGTGAGCTGCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC  
CCTCCTCAAACACTATCGGGGGCCCCGAGGGGATGCCACGGTGCCTCTGAGAAGGAATCAGTCATGTAAACCCC  
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT  
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGCCCCAGCACCCCTCCAGGACAGGAGATCTGGGAT  
GCCTGGCTGCTGGAGTACATGTGTTACAAGGGTTACTCCTCAAAACCCCGAGTTCTCACTCATGTCCCCAACTC  
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTC  
TCAGGGAGCAGGTACAGGTACCATGGGAATTCTAGCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA  
TTTTGGCGGCTGTAGTTGTGGGGGGATGTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT  
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCACCCGTGCCAGATCCCTATTCCCTCCACAATAACAGAAA  
CACTCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATA  
AAATTGAGTGTCAACTATTT

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**FIGURE 5490**

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA  
GGALALGPERLSAFVFPGELLRLRLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA  
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE  
VEGMNILGLVVFAIVFGVALRKLGPEGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA  
RLGKYILCCLLGHAIHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS  
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQSLDFVKIITILVTATASSVGAAGIPAGGVLTLLAIILEAVNLPV  
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPDPLPVPTTEGNPLLKHRY  
GPAGDATVASEKESVM



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**FIGURE 5492**

ATGATGGAGGAGCGAGCGGCCGCCGCGGTGCGCGCCGCCGCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC  
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCGCGGGCCGGCCGGCAGGTAAGGGAGGCGGCGGC  
GGAGGCGAGCCCCGGGCCACGGCGGGCCCGGAGCCCTGAGCCTGCCGGGATCCTGCACTTTATCCAGCACGAG  
TGGGCGCGCTTCGAAGCCGAGAAAGCCGCTGGGAGGCCGAGCGCGCGAGTTACAGGCTCAGGTGGCCTTCCTT  
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGCGGATCAAGATGCTAGAGTATGCGCTG  
AAGCAGGAAAGGGCCAAATATCATAAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTG  
TCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG  
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT  
TCCCTGCTGGGCCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGCCCCCAGGGCTCCACCAGGC  
CCTGCAGGGCTCAGTGGTGGGAGTCTGCTGCTGGTGAACAGATCGAGGAGCAGATAAAGAGGAACGCGGCAGGC  
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTCTGGGGCAGATCCCCCTTCTGCAGAACTGCGAGGACGAAGAC  
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG  
CCCCAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCTTGGGCTCAGGA  
GAGGATGGGAAGGGGCTCCAGACCCTCGGCGGTGCACTGTGGATGGGAGCCCCATGAGCTGGAAGCCGTCGG  
GTCAAACCTCAAGGCGTTCTGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGAAGTGGCCCCGCTCCT  
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG  
GACTTGGCAGATCTCACCCTACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAG  
AAGACGTGAACCCCAAGTTCACCTGCGCTCGCACTACGACGGCATTTCGTTCCCTGGCCTTCCACCACAGCCAG  
TCGGCTCTGCTCACCGCCCTCCGAGGACGGCACGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACGGCCAAGAAG  
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGCCAGTGTGGCTGTGGCTATGGGC  
AGCAACAGTGAATACTGCTACAGTGGCGGGGAGATGCCTGCATCCATAGTTGGAAGATTCCAGACCTCAGCATG  
GATCCCTATGATGGCTACGACCCAAGCGTGTGAGCCACGTCCTGGAGGGCCACGGGGACGCCGTGTGGGGCCTG  
GCCTTCAGTCCCACCTCCCAGCGCCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCACTGTTGGACCCCAGCAGC  
AGCAGCCCCGCTGCTCTGCACCTTCCCCACAGCCAGCGAGCACGGGTCCCCACCTCAGTGGCCTTACCAGC  
ACCGAGCCTGCCCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGTATGACATGGAGGTTGGCAGTGCC  
CTCCTACAGCTGGAGTCCCGGGGAGCAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCCAAACCAGCCT  
CTCACCATCACCGCCCACGACGACAGGGGCATCCGCTTCTGGACAATCGGACAGGTAAGCCGGTGCCTCCATG  
GTTGCACACCTGGACGCGAGTCACCTGCCTAGCCGTGGACCCCAACGGCGCATTCCTGATGTGAGGAAGCCATGAC  
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAACGTGCGTGCAGGAGATCACGGCCACCGCAAGAAGCACGAG  
GAGGCCATCCACGCTGTTGCTGCCACCCAGCAAGGCCCTCATTGCCAGTGTGGCGCTGATGCCCTGGCCAAG  
GTCTTCGTATGATGCCCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAGGGCCGGGCAGGTGGGGCT  
GAGGGGACTCCCAGCCTCGCTGGAGGTGCAGAGGCTGGCCTCTGTCTGTTGCCATGGAGCCTGGTGGTGCTAA  
CGGCCCTTTCCCCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCTTTTCCAG  
GAATACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGCAGCCGCTCCTGGTATCAGAGCTGCTTTCC  
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTCTCTCC  
CCTTGAGCTCCTGCTCCCCATCCCCATCCTCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGGTGGCAGC  
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCCCTCCCTCCGGCCCTCTCCACTGCTTTCCAGACACTAAC  
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCAGCGCCCCATGGGGTCGCCCATGGGT  
AGAGACGGCTTTCTGTGCCCTCCCTGGGGCATGGAGGTGGAGTGGGCTCGGGTCCCCCTGAACTCCCTGTA  
TATCTGTATAAATAACGGGATTTTCATGGCGCCGCCACCCGCAATTACTGTGTGATGGTCTCAGTCAGTCT  
CCTCCCTGTCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGTGTTGTTTACCCTGCACCCTCGGTCCCCTT  
CCAGGTTCTGTTTATAAGCCCCAACCCCTCTGTCCCCTCTGTATGTGAAAACCTGTCTCAATAAACCCCTTTG  
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5493**

MMEERAAA AVAAA SSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGSPGPTAGPEPLSLPGILHFIQHE  
WARFEAEKARWEAERAELQAQVAF LQGERKGQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV  
SEQVSNPVE SVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG  
PAGLSGGESLLVKQIEEQIKRNAAGKDGERLGGSVLGQIPFLQNCEDEDSDEDELD SVQHKKQRVKLP SKALV  
PEMEDEDEEDDSED AINEFD FLGSGEDGEGAPDPRRCTVDGSPHELESRRVKLQGV LADLRD V DGLPPKVTGPPP  
GTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNPKFTLRSHYDGIRSLAFHHSQ  
SALLTASEDGT LKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDLSM  
DPYDGYDPSVLSHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLCTFPTASEHGVPTSVAF TS  
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDRGI RFLDNRTGKPVHSM  
VAHLDAVTCLAVDPNGAFILMSGSHDCSLRLWSLDNKTVCQEITAHRRKKHEEAIHAVACHPSKALIASAGADALAK  
VFV



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**FIGURE 5494**

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG  
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTCACTATTTGACAAAGATGGTGATGGAAC  
TAACAACAAAGGAATTGGGAAGTGAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA  
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA  
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG  
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG  
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT  
GTACAGAATGTGTTAAATTTCTTGTACAAATGTTTATTTGCCTTTTCTTTGTTTGTAACTTATCTGTAAAAGG  
TTTCTCCCTACTGTCAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT  
TACTGTCATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA  
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA  
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGIGGAGTTGTAACCTCTGCGTGGACTATGGACAG  
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG  
TACTGCTGGTCCGTGACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTTAACTTTGTTTAGCCACTTAAAT  
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTGTTTTCCAATAAAAAAATTACAATTA  
CCC

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**FIGURE 5495**

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR  
KMKD TDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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**FIGURE 5496**

GAGCCTACCAAACCTTTGGTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC  
AGGCAGGAAGCAGTGCCCTGGAAAAAACCCTAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG  
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG  
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCGGGCAGAA  
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGGCCGTG  
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC  
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA  
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA  
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA  
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC  
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCCTGGGTGGGAGGGAGTTGGGGAAGGGAGGT  
GGATCTCTATGCCCTTTTCTCTACCAGGCTGCCGTTTACCAGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG  
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTCAATCCCTTTATGCATGAGCAGGGTCACTGTTACACT  
CATCCATGTTAGCTTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA  
TTTGGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCGCTTCTCTCTCGTGAACAGCGGGGTAAGTTAAGC  
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCTCCAGTTATCTAGCCAGGA  
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGAATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG  
TAAAAATGGCACTTTGATTCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAGGGGGGTGATTATAGGG  
AAGGACGCAGGCATTCTAGGTCCCCAGCTCTAATTCATCCATCTACCCAAGTGTACCATCTTTGCACCAAAC  
TGTCACCATCTTTGCAGCAGAAGGTCACTACTACATTATAGTAAGAGGGGAAAAAATCTTTTAAACTTTGGCT  
GTTGGCCGGGCACGGTGGCTCAGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGTCGATCAGAGGTCAG  
GCGTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAATTAGCTGGGCGTGGTGGCGCGCGCC  
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA  
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAACAAAACCTTGGCTGTTAATG  
TCTGCCCTCTGAATTGAGACACACTATATTAGACCAGACCACCATGTGTCAATTGTGTGTGTGTGTGTGTGTGTTT  
GCGTGCGCATGTGTAGAGGAGAGAGCAGGGTCCCTGAGATAATGGTTTCCAACTGTATCGTAGCCGTCCACAAA  
GATGTAATCCAAATCTATTTTCTCACGTGTTTAAAAAAGTGAAGTGAAGTACTACTCAGATATGTTGGAAGTCACA  
TCGAAGACTATCAGAATATTACCTTGTGTTTCATAGGTTAACTTGTTTTTGTACACGTCTTAGTTATTTAGGCAT  
CTCTTTGCTTAAATTTAGTTTCTTGTAATGTGACTGATGAGCGAGGTTAGAAGTGGAAGAAATTCCTGTGCAT  
GTTCTATAATCTGACACCTGAAAGCAAGTTTCCTTTTCTGTCATTACATGCTCTTGTTCTGCCGTGACTGTTTTCAG  
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA  
GTTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT  
CAACTTTAAAAACAAATTTCTCGTGATGATTCATTTCAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA  
AGAGAGTGGTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGAGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC  
AGGGGTGAATTGGATTCTTGAAGAGACCAAGCCTGTAAGTGTCCAGCTTCTAATTTCAAACGGGTCCATTAGG  
GCTTCGTTGTGTTAACAAGTTGACACCATGACTAGTAATGTAACGTGTATGTATAAAATAAAGTTTAGCAAT  
TAAGTGTCTGTT

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**FIGURE 5497**

CGCGACGGTTGCGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCATGGCGATGGCGGAG  
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG  
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC  
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGCTATGGCTAC  
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC  
AACATGGCACTGGGCAAGTTCGCGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG  
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCCTTTGAGCGGGCCATCGCGGGCGAC  
GAGCACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG  
CTTGAAGACGGCAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCAGTGGTACAAGGACCAGAAGAACTGCAC  
CGGAAATGTGCTTACCAGATTCTGGTACAGGTCAAAGAGGTCCTCTCCAAGCTGAGCAGCTCGTGGAACCA  
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAG  
CTCAACGGTTTACCCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTGTGTA  
GAAGTGATCCTCACCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACCAAGAG  
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCAGATGTACAGCTC  
TTTAGCGAGGTGTTGAGTGGCTCCCGTTGGCCAGTGCAATCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG  
TTCAGTGAAGACGGTGTCACCTGGATGACATCCGAAAATTGAGCGGAATCGACAACCCCCAGATTACAGGCCC  
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGCGTGAGCTGTGAG  
TTTGGGCTGACGTACCAAGGCCTTCTTGGAAGAGAACAACCTGGACTATATCATCCGACGCCACGAAGTCAAG  
GCCGAGGGCTACGAGGTGGCTCACGGAGGCCGCTGTGTACCGTCTTCTCTGCCCCCACTACTGCGACCAGATG  
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCTCAGTTCCACCAGTTACAGCAGTGCCCT  
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATGTGAGGTGACGGGCGGGGC  
GGCCTGCATCCAGGGCCCCCTCCAATCCCACCGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG  
GGCAATGTTGGACCCCCCTTTTACTTTGTAAAGTTGTATTTATTCCCCTTTAGGTTTGCAGAGGGGGTAGGGGCA  
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA  
GCCTGGGCATTCTGTGGGGAGGCCGCTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTGCA  
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCCATAGGAAGACCCCCAGAGAGAGGGTTCAGCAGGGGGGCCCC  
GCCTGCGCCTCCCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC  
TGTAATTAATATGTTAAATAAAGTCATTATCGGAAAAAAAAAAAAAAAAA

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**FIGURE 5498**

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT  
ECYGYALGDATRAIELDKKYIKGYRRAASNMALGKFRAALRDYETVVVKVPHDKDAKMKYQECNKIVKQKAER  
AIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST  
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTLFGFKLLYPDHFHLL  
RGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTLDDIRKIERNRQP  
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENNLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPN  
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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**FIGURE 5499**

CCCCTTCTGTGGGGTTTCATTGGGGCATCCCTTTTCTGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCG  
GCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCCAGGAAGCCGGACTCTATGGGGCGGGACCCTGGGGG  
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCG  
TGGGCGAGCCGCCCCGCCGCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT  
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCCTCAGCCGCGTCCAGATCTACCACA  
ACCCACAGGCCAATTCCTTTTCGCGTCTGGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA  
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC  
TCAACTTCGGCAGCAAGGAGGATGCGGGCCAGTTTGCCGCCGGCATGGCCAGTGCCCTAGAGGCGTTGGAAGGAG  
GTGGGCCCCCTCCACCCCCAGCACTTCCCACCTGGTCCGTCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC  
AGAAAAGGCAGCAGCCCGGCCCGTCCGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCACCTGCTCCCC  
CCGCTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT  
CGGGGGTCCCAGCTGCAGCGCACGGAGCAGGGGGAGGACCACCCCTGCACCCCTCTCCCGCAGCACAGGGCC  
CTGGTGGTGGGGGAGCTGGGGCCCCAGGCCCTGGCCGCGAGCTATTGCTGGAGCCAACTCAGGAAAGTCAGCAAGC  
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCAAAGCTGAGAGTGGTCGAAGCGGAGGTGGGGGACTCATGGAAG  
AGATGAACGCCATGTGCCCCGAGAAGGAAAGCCACGCAAGTTGGGGAGAAAACCCCAAGGATGAATCTGCCA  
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA  
CCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCCTTCCGAGACCCAACCCTGCACGCCCAGCTCCAGTGATT  
ACTCGGACCTACAGAGGGTGAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAGAGGAAA  
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTGACCACAGGGACCCAGAAGACCCGCTTCTC  
CTTTCCGCACACCCGGCCTGTACCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT  
GCATCGTTCCCACTCCCCATCCCACTTGAAAACTCCAAGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCT  
GCTGATTGGCTGGGGAGGCCCCGCCCTTTCTCCCTTTGGTCCTTCCCCTCTGCCATCCCTTGGGGCCGGTCC  
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGAAGGAAGGAGGAATTTACATTCCCTTGTCTAG  
ATTCACTTTAACGCTTAATGCCTTCAAAGTTTTGGTTTTTTAAGAAAAAAAATATATATATATTTGGGTTTTG  
GGGAAAAGGGAAATTTTTTTTCTCTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT  
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACCGGGCTGGGGGTGAGATATCCCCCAC  
CCCAGGACTCCCTTCCCTCTGGCTCCTTCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT  
CAGTTTTTTGATTTTTTATTTGGGTAGGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATG  
AGGGAGAAAGGAGAAGGGGAGGAACTTCTCCCTCCCACCTTACCTTTAGCTTCTTGAAAAATGGGCCCCCTGCA  
GAATAAATCTGCCAGTTTTTATAAAAAAAA

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**FIGURE 5500**

MSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDQQVVINCAIVRGVKYNQA  
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALPTWSVPNGPSPEEVEQQKRQQPGPSE  
HIERRVSNAGGPPAPPAGGPPPPPGPPPPGPPPPGPPPPGLPPSGVPAAHGAGGGPPAPPLPAAQGGGGGAGAPG  
LAAAIAGAKLRKVSQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP  
AQSESVRRPWKNSTTLPRMKSSSSVTTSETQPCTPSSSDYSDLQRVKQELLEEVKKELQKVKEEIEAFVQELR  
KRGSP

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**FIGURE 5501**

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCCTTC  
TGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCGGCGCCCGGAGACCGCCCCGGCCCGGTCCACATTCT  
CCCTGACCACAGGGACCCAGAAGACCGCTTCTCCTTTCCGCACACCGGCCTGTCACCCTGCTTCCCTGCCTC  
TACTTGACTTGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCTCCACTCCCCATCCCACTTGAAAACTCCA  
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCCGCCCTTTCTCCCTT  
TGGTCCTTCCCTCTGCCATCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGG  
GGAAGGAAGGAGGAATTTACATTCCCTTGTCTAGATTCACTTTAACGCTTAATGCCTTCAAAGTTTGGTTT  
TTTAAAGAAAAAAATATATATATATTTGGGTTTGGGGGAAAAGGAAATTTTTTTTCTCTTTGGTTTGTGAT  
AAAATGGGATGTGGGAGTTT



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**FIGURE 5502**

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCGCCTCGATCCCTCTGCAGTCTTTCCCTTG  
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCGGACCACAGGCTCCAGATGGACCC  
TGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA  
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCCTGTGGACACCTCGGC  
CCAGGCGGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC  
AGGGTCAGAGCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT  
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC  
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCCCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT  
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCCTGCGGGTCCTGCTTGTCCAGGTGGATGTGAAAGATCC  
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA  
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA  
GCAGGACTTCGTCTCCCGGGTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCCT  
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG  
CCCTCAGAAAGCCCCGAGGCTGTTTGATGTCTGCACGAGCCCTTCTTGAAAGTACCCTGATGACCCAGCTGCC  
AAGGAAACCCCAAGTGAATAATAAATCGTCCTCCCAGGCCAGGCTC

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**FIGURE 5503**

MDPGKDKEGVFPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAI SQPLEGAGAT  
CPTGSEPLAGETPNQALKPGAKSNSIIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP  
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLETYKAYEQKPADLLME  
KLEQDFVSRVTECLTTVKS VNKTDSQTLLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEFFLKVP

[illegible]

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**FIGURE 5505**

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG  
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQPIPASPPPQIPPGLRPRFC  
AFGGNPPVTGPRALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKKNQQLKEPE  
AAGPVGTEPTVETLEPLGVLFPSSTTKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGME  
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ  
AQAALAAPKKKTKKEKQQDATVEPETEVVGPPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEGQ  
PEARATPGSTKKRKKQSQESRMPETVPQEEMPGPPLNSESSEGEAPTGRDKKRKQQQQQP

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**FIGURE 5506A**

CGCCTCCCTCCGCCGCGCTTGGGCGGGCTCCGCGCCCCCTCCGCGGCCCCCGCCCGCCCGCCTGCCGCGCGCCC  
CCATGGCGCCCCGGGTCCCCGCTGCACGGGGCCACTAGGACCCTCGGCGTCCCTTCCCCCTCCCCCGCCCTGCCCC  
CTCTCCCGCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGAGCTCGCGTCCCAGGCCGGCGGGGGGGGA  
GGGGAAGAGAGGGGACCCTGGGACCCCCGCCCCCCCCACCCGGCGCCCCCTGCCCGCCGGACCCGGAGAAGATG

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACCTCGGACACGCATGGCACCTTGGGCAGTGGCCGCTCC  
TCGGACAAAGGCCCGTCCCTGGTCCAGCCGCTCACTGGGTGCCCGTGGCCGGAACCTCCATCGCCTCCTGTCCCGAG  
GAGCAGCCCCACGTGGGCAACTACCGCCTGCTGAGGACCATTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT  
CGGCACATCCTCACTGGTTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG  
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCCTAAACCACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG  
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGCTGGAGAAGTGTGTTGACTACCTCGTGTGCGATGGC  
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCCGACAGATTGTTTCGGCTGTGCACTATTGTACCCAGAAAAAT  
ATTGTACACAGGACCTGAAGGTGAGAACCTCTTCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC  
TTCAGCAACGAGTTCACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCCGGAGCTG  
TTTCAGGGCAAGAAGTACGACGGGCCGGAGGTGGACATCTGGAGCCTGGGAGTCATCTGTACACCCTCGTCAGC  
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT  
TTCTACATGTCAACAGACTGTGAGAGCATCTGCGGAGATTTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC  
GAGCAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAG  
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC  
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC  
CGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCCAGCAAA  
GGCACCAGCCACAGCAAAGGGCAGCGGAGTTCTCTTCCACCTACCACCGCCAGCGCAGGCATAGCGATTTCTGT  
GGCCCATCCCCCTGCACCCCTGCACCCCAACGCAGCCCGACGAGCACGGGGGAGGCGGAGCTGAAGGAGGAGCGG  
CTGCCAGGCCGAAGGCGAGCTGCAGCACCGCGGGAGTGGGAGTTCGAGGGCTGCCCGCTCCAGCCCCATGGTC  
AGCAGCGCCCAACCCCAACAAGGCAGAGATCCAGAGCGGCGGAAGGACAGCACGAGCACCCCAACAACCTC  
CCTCTAGCATGATGACCCGAGAAACACCTACGTTTGACAGAACGCCCCGGGGGCTGAGCGCCCGTCACTGTTG  
CCAAATGGGAAGAAACAGCTCAGGCACCCACGGGTGCCCCCTGCCTCCCCCTCCAGTCACAGCCTGGCACCC  
CCATCAGGGGAGCGGAGCCGCTGGCACGCGGTTCCACCATCCGACGACCTTCCATGGTGGCCAGGTCCGGGAC  
CGCGGGGAGGGGGTGGGGGTGGTGGGGGTGTGCAAGTGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT  
GCACCCCTGCCCGCCGGGCGGCCCGCCCCACCACCAACCTCTTACCAAGCTGACCTCCAAACTGACCCGAAGG  
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG  
ATCAGGTTCGAGACGAACCTGAGAGAATCGGGGGACCTGAGGTCAACAAGTTGCCATCTACCTTGGGATCAAACGG  
AAACCGCCCCCGGCTGCTCCGATTCCCTTGGAGTGTGAAGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGG  
CAGCTCTGCGCCAGGCCACAGCAGCCCGCTGCGCTGCGCCAGCCACAGCCGTTCTGTGGCTGCCTGC  
ACGGGGGTGCGGGCGGGCCCGAGCCCTGTCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAGGCTTGC  
GGGGAGTTCTCTTCCGCGGTGTGGCGGGCACCGCCTGGCCTTCCGCACCCTCGTCACCCGCATCTCCAACGACC  
TCGAGCTCTGAGCCACCACGGTCCAGGGCCCTTACTCTTCTCTCCCTTGTGCGCTTCACTTCTACAGGAGGGG  
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACCTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC  
CCCTCTGCTGTTCTCTGGGGCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGAGCTGGCACCTTCC  
TGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG  
GGCAGGGAGGGAAACTGAGGAAATCTTCCATTCTCCCAACAGCTCAAAATTAGGCCTTGGGCAGGGGCAGGGAG  
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCTCCC  
GTCCCTCAGCTCAAACCCCACTTCTGCCCCAGGCTGGCGCGGGGCACTTTGTACAAATCCTTGTAATAACC  
CCACACCCTCCCTCTGCAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCG  
ACCTCTCTCTGTGAGCCCCCTCACCTGCAGCCTGTTGCCAATAAATTTAAGAGAGTCCCCCCTCCCAATGC  
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT  
TTTTCTTTTCGGAGCCTCGGTTTTCTCATCTGCAGAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTGG  
AAGAAGGCAGGATGGAACTCGGCCTCATCCCCGAGGCCCAAGTTCTATATCGGGCCCCCATTCATCCACTCAC  
ACTCCAGCCACCATGTTACTGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAAACAATC

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**FIGURE 5506B**

ATTGAXCCC

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**FIGURE 5507**

MSSRTVLAPGNDNRNSDTHGTLGSGRSSDKGPSWSSRSLGARCRNSIASCPPEEQPHVGNRYLLRTIGKNSAKVKL  
ARHILTGREVAIKIIDKTQLNPFSSLOKLFREVRIMKGLNHPNIVKLFVETETKTLVMEYASAGEVFDYLVSH  
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLDAAENIKIADFGFSNEFTLGSKLDTFCGSPPYAAPE  
LFQGGKYDGPVVDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSTDCEILRRFLVLNPAKRCT  
LEQIMKDKWINIGYEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLGRKTEEGG  
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQRHSDFCGSPAPLHFKRSPTSTGEAELKEE  
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNAEIPERRKDSTSTPNNLPPSMMTRNTYVCTERPGAERP  
SLPNGKENSSTGTPRVPPASPSHSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGPPASPTLAHE  
AAPLPAGRPRPTTNLFTKLTSLTRRVTLDPSCRQNSNRCVSGASLPQGSKIRSQTNLRESGDLRSQVAIYLG  
IKRKPPPGCSDSPGV

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**FIGURE 5508**

ACCCGGAGCGGGAAGATGGCGGCGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC  
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCACCG  
GCCAGCCGGCACCCAATGCCTGGCAGGTTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC  
AGTTGGTTCCGCGGAGGGCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC  
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC  
ACGTGGCACTCTTCTGGGAACAGCAGCATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC  
TAGGAGCACTTTGCTGAGCTCGATATCCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC  
ACCAAGAGTGGCTTCCACCCAGACCCCGGCGAGAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG  
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA  
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC  
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCTGGATCAATATGTGAAGTTCGACGCC  
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC  
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC  
CAGAGCACCAAGTCGCCCTGGAACCTCCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG  
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTTCACAGTGTCTTC  
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC  
GTCTTCTTCGGCGTTTTCCAGTCATTTCGTGGTCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG  
GTCAGCGTCTTCATTGGGGTCTCTATCGACCTCTGGAAGATCACCAAGGTTCATGGACGTCCGGCTGGACCGAGAG  
CACAGGGTGGCAGGAATCTTCCCCGCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAAGTG  
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT  
CTGTACCTGGAGCACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCTGCTGACCTTCGGCTTC  
ATCACCATGACCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC  
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTGCGCTTTGTATCAAGATGCCCGTTATGTACCGGATCGGC  
TGCCTGCGGGACGATGTGGTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC  
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCACACAGCAGCAGGGGCC  
CTCAGCCCCACCTGCACCCACCAGCACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCACCAAGCCC  
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGATTAG

TCGAGACTGGTCTCCTCACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCTCCCTCCC  
TGTCGCCCCTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCTCAGGTGAGGGCCAGCGTGTGACGT  
AGGGGCCGGGGCAGGCCAGGGTTTTGTTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT  
CGCCCTGCCAGCCCAGCACCCTGGGAATCATGTTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTGGGGCGGG  
GGTGGGGCCGGGCCCCCTACGGGATGCCCACGGCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC  
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTTCATATGGGTGTTTAACTTAACTCAAAAAA  
AAAAA



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**FIGURE 5509**

MAAAQEADGARS AVVAAGGGSSGQVTSNGSIGRDPPAETQPQNPPAQAPAPNAWQVIKGVLFRIFIWAISSWFRR  
GPAPQDQAGPGGAPRVASRNLFPKDTLMNLHVYISEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA  
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPQKALYRRLATVHMSRMINKYKRRRFQTKNLLTGETEADPEMIKR  
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKFDAVSGDYYP IIYFNDYWNLQKDYYPINESLAS  
LPLRVSFCLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALT IIIVSIVHSVFEFLAF  
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVSFIGVLIDLWKITKMDVRLDREHRVAG  
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFPLLGCYAVYSLLYLEHKGWYSWVLSMLYGFLTFGFI TMT  
QLFINYKLKSAHL PWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVFFIYLYQRWIYRVDPTRVNEFGM  
SGEDPTAAAPVAEVPTAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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**FIGURE 5510**

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA  
GCGGCCAGCGCTGGGAACTGGCACTGGGTCGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC  
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCCTGGTGGAGACATGCAGC  
GCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCTGTGCCCAGCGACAATC  
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCCAAGCCACCCCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGG  
AGACCCTGTCCCGCCCCAGCCGTCTCTGGGGTGGACCCTAGTTTAATAAAGATTACCAAGTTTCACGC

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**FIGURE 5511**

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG  
GCTGCGTTGCTGGTCACATTCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC  
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTTCGCTTTTGGGATTACCTG  
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCAACCAGGAAGTGAAGGCG  
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGGAACAAGTGAACCCCGGTGGCGGAG  
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGTGGGCGCGGACATGGAGGACGTGTGC  
GGCCGCTTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC  
GCCTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC  
CAGGCCGGGGCCCGCGAGGGCGCCGAGCGCGGCTCAGCGCCATCCGCGAGCGCCTGGGGCCCTGGTGGAAACAG  
GGCCGCGTGCGGGCCGCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCTGGGGCGAG  
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGACCCGCGACCGCTGGACGAGGTGAAGGAGCAGGTGGCG  
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG  
AGCTGGTTCGAGCCCCCTGGTGGAAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG  
GGCACCAGCGCCGCCCTGTGCCAGCGACAATCACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC  
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCTCCTGGGGTGGACCC  
TAGTTTAATAAAGATTACCAAGTTTCACGC

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**FIGURE 5512**

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT  
QELRALMDETMKELKAYKSELEEQLTPVAETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE  
LRVRLASHLRKLRKLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA  
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEK  
VQAAVGTSAAPVPSDNH

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**FIGURE 5513**

GGCGGCGGCAGCGGGTTGCGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG  
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCTGCGCCGGCCCTC  
GTGGGGCTGCGGCCACCTCCGCCCTCGCCGCCGGGCTTACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC  
ACCACTACGAGTCGAAGTTCGGAACGGACCCCGGGGCTGCAACGCCAGCGCCTCAGGGGCCGCCGAGGATGGG  
GCCTGCGGCTGCCGACCAACCGGGCACATTGAGGAGTGCCACCGGAAGTGAAGGAGCTGTTCCCATTCAG  
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC  
ACAATCGGGGAGTCCAATACCCTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC  
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC  
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTGTGAACCTGGCAGGTGGACGGGGAGTATCGGGGCTCT  
GACTTCACAGCAGCCGTCACCCTGGGGAACCCAGACGTCCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC  
CAGAGCATCACGCCCTGCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTC  
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA  
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC  
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG  
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCTCTGAATCAC  
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTAGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT  
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT  
GGGGGTCGGGGGGGGACATTGGAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAACCTGAAT  
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA  
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA  
TCCTCCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCATCCCCGGTCAGTCCACCTGCC  
CCGTCCACTTTCCTATCTCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTACAGAAAAA  
AAACAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5514**

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGS LGAGTSTSRSSERTPGAATASASGAAEDGACG  
CLPNPGTFEECHRKCKELFP IQMEGVKLT VNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL  
VGDMDNSGSLNAQVIHQ LGPGLRSKMAIQ TQSKFVNWQVDGEYRGSDFTAAVTLGNPDV LVGSGILVAHYLQSI  
TPCLALGGELVYHRRPGEETVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS  
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAF LNHRKNKFQCGFGLTIG

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**FIGURE 5515**

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCCCACAGGCACCTACTAA  
ACCGCCCAGCCGATCGGCCCCACAGAGTGGCCCGCGGGCCTCCGGCCGGGGCCAGTCCCCTCCCGGGCCCTCCA  
**TGG**CCCGGGCCGCTGCCCTCCTGCCGTCGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC  
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCGTGG  
AGCTGCCGTGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCAGATGCAC  
CTGCGAACCACCAGAATGTGGCCGCCTTCCACCCTAAGATGGGTCCCAGCTTCCCAGCCCCGAAGCCTGGCAGCG  
AGCGGCTGTCTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG  
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGGTCCGTCC  
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCAAGAACCAAGCTGAGGCCCCAGAAGGTCACGTTACGCCAGG  
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCCAECTGCCCGGATCTCCTGGCTCTCATCCCTGG  
ACTGGGAAGCCAAAGAGACTCAGGTGTACGGGACCCTGGCCGGAAGTGTCACTGTACCAGCCGCTTACCTTGG  
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA  
TACCTGTGACCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGGTACCTCGGCC  
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG  
GCACCTTCCCGACCTCCGCAGTGGCCCAGGGCTCCCAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCA  
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTATCTTTGTCCGAGAAACCCCA  
GGGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGCTGCTGCTTCTGG  
CTGGGGGGTCCCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG  
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG  
TAGTCCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC  
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG  
CAGTTTATGT**GTG**ACCTGGACACAGACAGAGACAGAGCCAGGCCCGGCCCTCCCGCCCCGACCTGACCACGCCG  
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACACTGCCTCCCACTTTCTTGG  
GACTTGGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCCGGGGAGCTGAG  
TAGTGGGGATCCAGAGAGGACCCCCGCCCCCAGAGACTTGGTTTTGGCTCCAGCCTTCCCCTGGCCCCGTGACAC  
TCAGGAGTTAATAAATGCCTTGGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5516**

MARAAALLPSRSPPTPLLWPLLLLLLLETGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA  
PANHQNVAAFHPKMGPSFPSPKPGSERLSFVSAKQSTGQDTEAELQDATALHGLTVEDEGNYTCEFATFPKGSV  
RGMTWLRVIAKPKNQAEAKVTFSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGITVTISRFTL  
VPSGRADGVTVTCKVEHESFEFPALIPVTLSVRYPPEVSISGYDDNWYLGRTDATALSCDVRSNPEPTGYDWSTTS  
GTFPTSAVAQGSQQLVIHAVDSLNTTFVCTVTNAVGMGRAEQVIFVRETPRASPRDVGPLVWGAVGGTLLVLLLL  
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNGDPVFWTPVVPGPMEPDGKDEEEEEEEKAEG  
LMLPPPPALEDDMESQLDGSLSRRVYV



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**FIGURE 5517**

AGTCTCCGCCGCCGCGCTGAACATGGAGCCCCCGACGCACCGGCCAGGCGCGCGGGGCCCCGCGGCTGCTGTT  
GCTCGCAGTCTTGCTGGCGGCGCACCCAGATGCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT  
GATGCGAGGAAAGTCTGTCTTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCCCT  
TACCGACCGCTCGGGAGCTCGCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCA  
CGACACCGGGGCGCAGTCCCCCATAACAGCTGGACTCCCAGGGGCGCCTGGTGCTGGCTGAGGCCAGGTGGG  
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT  
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCCAGGA  
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGCCCCCAAGATCACGTGGTATCGCAACGGGCAGCGCCTGGA  
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT  
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCACTACAGCCT  
GCCCCAGGGGCCCGCAGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCACTATCCCACGGAGCACGTGCA  
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG  
GGACGGCAGCCCCAGCCCGGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT  
CGAGGGGAAGTACCTGAGGGAGTGACCCGGGCGCAGAGCGGGACCTATGGCTGCAGAGTGGAGGATTACGA  
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA  
GGGGAAGGTGCTTTCCCTTACCTCTAAACAGCAGTGCAGTTCGTGAATGCTCCGTGCACGGCCTGCCACCCCTGC  
CCTACGCTGGACCAAGGACTCCACTCCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATCACCTTCGATT  
CAATGGCACCTACGTATGTGAGGCCCTCCCTGCCACAGTCCCGTCCCTCAGCCGCACCCAGAACTTCAGCTGCT  
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA  
AGTCACACTCATCTGCTCTGCCCCGCGCCATCCAGACCCCAACTCAGCTGGAGCCAATTGGGGGGCAGCCCCGC  
AGAGCCAATCCCCGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA  
TGGCATCTCCTGTGAAGCCTCCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCA  
GACCTCCCAGGCTGGAGTGGCCGTATGGCCGTGGCCGTGAGCGTGGGCTCCTGCTCCTCGTCTGCTGTCTT  
CTACTGCGTGAGACGCAAGGGGGGCCCTGCTGCCGCCAGCGGCGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC  
AGGGCTGAGCCACTCGGGGTGCGAGCAACCAGAGCAGACCGGCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG  
GGGTGGCAGCGGGGCTTCGGAGACGAGTGCTGAGCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC  
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCCGCCCCCGCCTTCCCTCTTCCCTCTCCCTCTCCCTGCCC  
AGCCCTCCCTTCCCTCTGCGGGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG  
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA  
AGCCCAAGGCCAGCCTGGGACAAGGCTCCGAGGGTCGGCTGGCCGGAGCTATTTTACCTCCCGCCTCCCTGC  
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCTGGTCCCACT  
CCTGCCCCCGCCCTACCTCCGCCCCACCCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTACACA  
TC

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**FIGURE 5518**

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSVPLVEVMRGKSVILDCTPTGTHDHMLEWFLTD RSGAR  
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT  
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLR  
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTHEVQFWVGSPSTPAGWVREGDTVQLLCRGD GSPSPE  
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSE GKVLSLP  
LNSSAVVNCSVHGLPTPALRWTKDSTPLGDGPMLSLSITFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGS PEL  
KTAEIEPKADGSWREGDEVTLIC SARGHPDKLSWSQLGGSPAEP IPGRQGWVSSSLTLKVT SALS RDGISCEAS  
NPHGNKRHFVHFGAVSPQTSQAGVAVMAVAVSVGLLLLVAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS  
EQPEQTGLLMGGASGGARGGSGGFGDEC

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**FIGURE 5519**

TCCCAGCCGCACCGGTCTCTCCCGGCACACGCGAGGCTCCCATGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT  
GGGAAGAGGCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC  
TGTCCGTGAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTC  
GGCGGGCGGCCGGCGGAGGCGGCCCGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC  
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC  
GGCGGGGCTCCAGACTCAGGCACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG  
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG  
AAAGTTGCGGAGCCCGGTGTGTGCTGCCCTGGGCTGAGTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC  
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAGTTCCG  
ACGTCTTACCAGGCTCTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG  
GCTACATGGCCTTCTTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCTGCAGAGACAAGCCAGGCAGTTACA  
TCTTCCGGCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCTGCAGA  
CCATCCCTGCCAACAACCCCTGTCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG  
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCAGCAGCGCATCCACGTGTGAGAGGAGC  
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA  
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC  
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTCTACGGTCAGGCTACTGCTGAGG  
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCCCTTCGGCTCCTCCATTGC  
CCCCACGGCCAGATCTGCCCCCAGGAAGCCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAACCTCC  
CTCCAGCTGCGCTGGGACCCAGGACCCTGCCCCGGCTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG  
CCCCAAGGGCTGGAAGGGGGTGTGAAACCGAAATAAAGTGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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**FIGURE 5520**

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG  
SGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAGSRLRRQLAKLAIIFSHMAELHALFPGGKYCGHMYQ  
LTKAPAHTFWRESCGARCVPWAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFEFDVFTRLFQWPPTLL  
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLE  
GQKDGFYLYPDGKTHNPDLTTELGQAEPPQRIHVSEELQLYWAMDSTFELCKICAESNKDVKIEPCGHLSCCL  
AAWQHSDSQTCPFRCCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA  
QPKVRLKGNSPPAALGFPDPAPA

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**FIGURE 5521**

ACCATTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA  
GGTGGGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT  
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG  
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTCACGTTGGCGCCGTGCTGCAGCAGCAG  
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGATGAGCGGGGAGCGGCCG

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**FIGURE 5522**

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCCGTGGACTGCGCACCCGGGCCAAGGCCACTGGACTCCC  
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCCGCTGCGCCGCCCTTCCCCGGAGCCCGCCGCTCCCCGCGGGCGCTG  
CGGGCCTTGTCGTCCCCCTGGACCCTCTGCGCGGGCGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCCACGGCC  
TGGCCCCGCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT  
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGCTGACATCGC  
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT  
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT  
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGCAGCTGGTGCCAGCCCCATGGCGCT  
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCCGACCTGCCTGCGAGCCCTGCTGGA  
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGGCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA  
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGACATTAAGAGCGG  
CCGCTCCCCGCTCATCCACGCCGTGGAAAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA  
CGTGAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCGGCTCCTCCCGCTGGTGGC  
CACGCTGGTCCGACGCGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGCAG  
CCGACGGGTCTCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCAGCCAGACCCCTCCCTGA  
CCGGAGCGCCAACACCTCCCCCGAGAGCAGCAGCCGCCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC  
CTCACCTCCAGTCTCCCCCAGGGACCCCTGGATTCCCCATGGCTCCTCCCAATTTCTTCTCCTTCCCC  
ATCTCCACCCGCTTCTGCCCCCTTGCTGGGGTCTCCGAGGCCCTGGCCGGCCGCTGCCCCCTCCCGAGCTCC  
AGGAGGCAGCTGAGGGGGATGGGGGGCAGATCTTGGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC  
CCTTCTGGAACTGTGAAGATCTCACTCTGCCCCCCCCATCTTCGGGACCAGGATTGACAGAAACACATGCA  
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCCATCTCGCTCCCTCCAGGACTCTGACCCACGAT  
TCTCAGGCACCACTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCTCCAGAGCTGGTGGACC  
CAGGGAACAGCCACTCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAACGGGCACGGAT  
CACGATGTAAATTATTAAGCATTTTGGTTGGATTCTTTTGTAAATAAACTATTTTGTACCAT

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**FIGURE 5523**

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT  
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG  
TATCCAAGCGGCATTCAAATCTGCCCCCTACTGTGGAAATTCCTTGCCCTGTAGAGGAGCATGTAGGGTCCCAGAC  
CTTTGTCAATCCACATGTGTATCCTTCCAAGGCTCAAAGAGAGGGGCTGAAGTCCAGTTTTTGAAACCTCTCCTAA  
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA  
AGATACTCTGAGTTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCAAAAGCAGCCCTCAGAA  
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG  
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA  
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGACCCAC  
CTCCACCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGATGCCAAGGATGGGCGCTT  
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGAC  
CCCCTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTTGTTGTTACCCAG  
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAAGCATGTGCTGTGTCAGAGAGGTCTGTGCTGCAGGT  
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCCTCCATGAGAATGAGTATGTTTATGGAAATGTGACAGCTGAAAA  
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG  
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTTATTAGCATGGACCT  
GCACAAGGGATGCGGGCCCTCCCGCCGACGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG  
GTTTCTGCCATGGACAAATTGCCCTTCCCAACACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCC  
GGGGCCCTTCGTGGGACCCTGCGGTCAGTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT  
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG  
TGTGTCTCCATATGACCCCATTTGGCTCCCGATGGTGCCCTAGGTGGAATCCAGAACTTTCCATTTGCAGTGTGC  
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAAATCACAGATAAGCTTCTAGAACAAGCCCTG  
GAATGTGCATTCTTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC  
CCGTGAATGTGAAGTTCCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCTAGCAAAGCTGGATGGGGTTGGGC  
CGGCCACAGGGGGGACCCCTCCTACCCCTTGACTCCTCTGTGCTTTGGTAATAAATTGTTTACCAGAG

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**FIGURE 5524**

MISFCPCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVSSFQGSKRGLNSSFETSPKKVKWSSTVTSPRLS  
LFSDGDSSESEDTLSSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTLSLE  
ALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTLTCDSGPQKQKFSLKLDKDGRLFNEQNFFQRAAKPL  
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLSERSVLQVACRLDDALEFLHEN  
EYVHGNTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS  
LGYCMLKWLYGFLPWTNCLPNTEDIMKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLR  
NNLEALLQDLRVSPYDPIGLPMVP



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**FIGURE 5525**

ATTCATTCCCTGTCCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCGCCTCTGCCTGCGTAGCCCCGGCCAT  
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCGTCTCCGCGCTCACCACGCTGCGCTCTCCGCTCCCACC  
TTCTTTCTTCAGCCGAGGCCGCCGCCCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTCGCTTGGTGCCT  
GTCTTCGCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCC  
CAGCACCTGTGCTACAGCCATGCTCACTCCTGGCGACCCTGGGGCTGGAGCTGGACAGGGCCCTGCTCCCAGCTAG  
TGGGCTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTGG  
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGAGAGCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA  
GCGAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCTACCCCCCGGCACCCTCCCCAACCTTCCCCAAC  
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCTAGATGC  
CCCGCCCTCCCACCACCTCCCCGCCGCACTACCACCACCACCTACCACCAGCCCCCTCCTCCCCCTGTC  
CCTCCCCCTCTTTGACCTCCCCAGCCCCCTGTCTTGGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGA  
GGCCGGGCAGGAGGAAGTGGGGATGCCGCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACC  
TTCTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA  
GTGCGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGA  
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCAT  
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTAGAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC  
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG  
CTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGAGGCCAGGAGGTCAATACCAGCCTGGGCA  
ACATAGTAAGACCCTGTCTCTATTAAAAAATAAATCAACCCTTCTTCCCCACCAACCACCAACTCCTCTCT  
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTCTTGATCTCCTTCCCTCCTTTCTC  
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCCTCACATAACAGCCGAGGCACCGAGGCCACA  
GGGAAGCAGCTGGGAGCTTGGAAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT  
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG  
GACCCATATCCTACAGGCAAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG  
CCAGGTTTGCAGTGCAGGAAGATGAGCAGGCCAGTGGGAGGAGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT  
GTTCATTTTAGCTCTAAGAAAAAATCAGTGTTTCGTGAAGGTGTTGAGAGGGGCTGTCTGCGGTGAGGGAT  
GGCGGGGTACTGATTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTG

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**FIGURE 5526**

MSLLATLGLELDRALLPASGLGWLVDYGKLPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA  
LLPLEPPLPPGTLPQPSPTPDLEAMASLLKKELEQMEDFFLDAPPLPPPSPPLPPPPLPPAPSLPLSLPSFDL  
PQPPVLDTLDLLAIYCRNEAGQEEVGMPPLPPPQQPPPPSPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY  
RQRKRAEGEAGEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQTRSC

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**FIGURE 5527**

GCGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG  
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGGCGGCCCTCGG  
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCCATCCACATCAGGACATCCCAGC  
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA  
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCCTCCCAGTCCTGACAAATGGCCTTTCCTTAAGTTCCTCATT  
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC  
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCCTAACAAGGACAAAGCCACCATCATTACCT  
TGATTCCGCACATGCCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC  
AGAGGCAGCCATGCACCCTGCACCTCCTCGTCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA  
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA  
CCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG  
CCAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA  
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC  
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTACCCAGTACGACAAGAACACGTGGACGGAGGTGC  
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAAA  
AGGGCCACTCGCCCCAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA  
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG  
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX  
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG  
CTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA  
GATCGAGACCTCTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACC  
GGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT  
GCCGGCCACCAAGGTGTTCTTAAGCTTCCGAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAA  
CACCATCGCCCCGTGCGCATGATTTCTACCCGCCGCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG  
GTCGGACGCGGGCGGACGCTTCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC  
ATTGCACGGGCCTGTGCTGCGCCAGCTCTGGGACGGCACCGGCGTCTCAAGCGTTGGGCGGAGGACCAGCACAG  
CCAGGGTGGCTTTGTGGTACAGCCGCCGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG  
CATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC  
CGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA  
GGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCCCTCGATGACCTGGCAAAGGAAGAAGGCAGCCACCCCTCC  
AGTCCAAGGCCAGTTATCTCTCCAAACACGACCCACACGAGGACCTCGCATTAAGTATTTTCGAAA

GAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGCGGCTCGGCTGAAGAAAGAAGAA  
ATCTTCCCAAGGTCGAGACACCGACGGATTGTCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC  
ATGAGCGGGTTTAAATTTGGAGGCACTGGGGCCCTACAGGCGGGTTCAGTTTGGCACTGCAAAGACGGCAACA  
ACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAAATTTGGGGCTCCCTTCCAACCA  
GCCACAAGTACCCCTTCCACCGGCGCTGTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCAC  
TTTGGAAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC  
AACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTACTAATGCCATA  
TCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGGCT  
CCAGCTACCACATCTGGAGGCTTCTCATTCAGTGGTGGAAAGCACGGCCCCAACCTCCGGTTTCAACATTGGCTCA  
GCAGGGAATTACAGCCAGCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA  
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAATA  
GCAACTGCTCCAACCTCATCTGCCACCAGTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT  
GCTGGGACACAGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAATCCACCGCTGCC  
ACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCAGTGGCGCCAGCC  
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC  
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC  
TTCCTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTG  
CACCGCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCCAGCAG  
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC  
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCAGGAT  
CTAAGGACATCATCGAGCACCTGAACACGTCGGGGCCCCCGGCACACCAAGTGAACCATGCAAGAGATCTGC  
AAGATCCTCATATGCGACATGGACTCACTGCAGTGGATCGACCAGAAGTCAACCGCCTGCTGCAGAGGAAGGTGGAG  
GAGGTGACCAAGGTGTGCGAGGGCCGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA  
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTTCAAGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTG  
GCAAGATACTTTTGTGTTGTTTCTTTTCTTCA

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**FIGURE 5529**

CTGTAGTCCTGGCAGTTTGTAGAGGACAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA  
AAATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG  
CCATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGGCAA  
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTGGGGCTCCCTTCCAAC  
CAGCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA  
CTTTTGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA  
GCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA  
TATCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG  
CTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCT  
CAGCAGGGAATTCAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG  
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAA  
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCA  
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTG  
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCCACCGGCTTTGCCTTGAATTTAAACCACTGGCGCCAG  
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

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**FIGURE 5530**

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTCGGGGGCGCGACAGCTGGAAGAGCCGAACG  
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCATGGTCGAGGAGCCCTG  
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGGGCTGCCACTGCTGCTCGGCCCTCTGCG  
CCCCACCAGACCCACAGCCACCCAGTCCACACCCAGCCACCCCGGCCTACCCTGGCCAGAGAGGACAACGAG  
GAGGACGAGGATGAGCCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT  
GTGATGGATGAGGACGCCACCCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCCGAGAGTACAGATGATGGC  
AGCCTGAGCGAGGAGACCCCCCGGGCCCCCCCCACCTGCTCAGTGCCCCAGCCTCAGCCCTACCCACACAGCAG  
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTTCATCAGAT  
GAGGAGAATGGGCCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGCGGAGCATGCGCGCGCTGGTGCTGCGAGAG  
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG  
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGGCGCGTCCGCCCCGTCCCACTACGCCCCCGCCCCACTCCC  
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCTCCTTGCGTCTCCATTCCCAAGATTGTCCGCGCTCTGC  
CAATCCCCGCGTCTTCCAGCCACGACCTGCCGCGCGGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT  
GTCGTCTCTCTCCGCTAGCGACAGATTCTTCTATTAAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT  
CAACTCCTTTGTTTTCCGCTAGCGACAAGGGATTTGCTCGCACGGCATTGGCTCCATCCCCTAGTCGCTGGACA  
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTACCGTCCGCTTTTCTGA  
GTTCTCCCTCCCAATTGGCTCCAGCTTCTTGGGGGCGTGGCCAAGCCCTCCTCTTCCAGAATTGGCCCGGGGCC  
TTCAATTTACGTTCTTTTACACTACGGGGACTGGGGTCTGTTTGGCCACGTCCCGACAACCTGTTCCCTGACCCC  
CTCAGGGATGGCCCCAACTGTCCCTGCCTCTGGCACCCCTTTCATTGGTTCCATCCATCCCCACAACAGCCTG  
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA  
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG  
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTTACCTCTGAGAT

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**FIGURE 5531**

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG  
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCCGGGCCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCCC  
CATCTTCCTGCCCTCGGACGGGCAAGCCCTGGTCCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG  
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAATCCTG  
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGAGATCCTGAGACCCGGACAGTGGCAGTGAAACAGCTGGGA  
GTTAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG  
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT  
CCGCTTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCCGAAGTCA  
AACCCCGGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT  
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGACTGGAGG  
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTCACCAAC  
CAGATGAGCATCGGGCGCGGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG  
GGGGTCCCCCTTCAGGTGCTGGTGGCCACGCACGCAGGCTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT  
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC  
CCGGCCAACCTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC  
CTGCCCTTCGCCACGCTGAGGAGTTCTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG  
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGTT  
GTCGAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGATATGTCCAC  
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG  
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCGAGCCGCGGGCGTC  
CCCTGCCGCTGCTTCTCTTACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGAGATGACGGAC  
TCCTCTCATATCCCCGTGTCAGACATGGTCATGTATGGCTACAGGAAGCAGTTTCGAGGCCCAACGCTGGCTGAA  
GGCTTCTCTGCCATCCTGGAGATCCCGTTCGGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC  
TCCGAGGGCTGAGCCCCGCCAGCTCCCTCCACAATAACGCTGTTTCTCCTTG

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**FIGURE 5532**

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCCGGCCCGCGCCGG  
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGCTCCGCAA  
GCACTACCTGCTCCCGGCCATCGAGTATTTAATGGTGGTCTCTCTGCTGAGACGGACTTCGGGGGAGACTATGG  
GGGGACCCAGTACAGCCTCGTGGTGTTC AACACAGTGGACTGCGCTCCCGAGTCTACGTACAATGTCACGCTCC  
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTTCATGGGCGGGGTGGTGAGAGCTGCAG  
CCTCATCGCGGAAGGACTCAGCACAGCCTTGACGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA  
GACGCACCGGGTCTGCCTCTCATCTGCAACTACCCCCATACTTGTTGCCTGCTGTTGAGAGCACCACGTACTC  
TGGATGCACAACCTGAGAATCTTGTGACGAGATTGGGGAGCGGGGGATCCACTTCTCCATTGTGTCTCCCCGGAA  
GCTGCCGTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA  
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGTGCTGCTGTTGGGGGTGGCTCAGCCCTAGG  
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA  
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA  
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCTCTCCAACAAGC  
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGTCCCCCAACTACCCCCAGGACCCCTGGCGCCCCCAA  
GCCACCACCTGCTTCCAGCCAGTCTGGTCTCCACTGTGGCCCTTGCTCCGGCCTGGCTCCACGGCACAGCC  
CGGGGCACCGTCCATGGCAGGCAGTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCAGCTGGGAGCCCC  
AGCCCTCGGTGGGCAGCAGTCACTCTCAATAAGCTTCTGGCCTGGAGCGGGGTCTGGAGTGGAAGAGAAACC  
CAAACCTGCCTCAGTGGATGCCAACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA  
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG  
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCCATTTACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA  
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCATTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGTCTCAT  
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCCTCATCCCCTACGACCAGAGCGGCTTCGTCAACGGCAT  
CCGGCAGGTATCACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA  
GCAGGCACCCCCAGGGCTGGGGCCCATTTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC  
CACCGCAGCCCCAGCCTCAGGGTACCGTAGGGGCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCC  
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGGCCACCCCCCTCCTGGACCCATCCTTCGGC  
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGAGACTGGGGTGCCCC  
CACCCCAGGCCTCCCTCCACCACCTGCCAGTCTGGCCCGCACAACCTCCCCCTCGGGTCCACTGCCAGGTAA  
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAGACCAAGTGC  
TCCTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTTCCCCAGCCGGGCTGCAGCCAGCGTCATGGAGGA  
CGACATCTCATGGATCTCATCTGAATCCCCAACACCCAATAAAGTTCCTTTTTAACACAAAAAAAAAAAAAA  
AAAA



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**FIGURE 5533**

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGLRKHYLLPAIEYFNNGGPPAETDFGGDYGGTQYSLVVFNNTVD  
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCLLICNSPP  
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPA LRLLFEKAAPPALLEPLQPPTDVSQDPRHMLVRG  
LVLPVGGGSALGPLQSKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG  
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGLAPTAQPGAPSMAGTVAPGG  
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM  
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLESKGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLLYSSKKKIFMGL  
IPYDQSGFVNGIRQVITN HKQVQQQKLEQQQRMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW  
GHGAAPAPRYCPAPARCPSRPSWSSFWPTPSWTHPSAEPWPQPSAAKPPPQPTTAADWGAPTPGLPPPPAQSWP  
AQLPPRAPLPKGKTRGRAEVWTECPSSSWARAPRPSAPGK

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**FIGURE 5534**

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC  
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCCTAAATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTG  
CTGTGCCCTCGCGGCTCCAGCGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCCGCCGTCAGCAG  
CTCCCGTTCTCTGTTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT  
GCGAGGACCGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATCACCTCATTGTTCTGTTCATCTGAG  
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCAAATGGTGTGGAGCCATGGTCCTTCTGTGGGACTT  
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCCTCATCGACAGC  
TTCCTGGGGGACTCGGAGCTCATCGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTC  
TTGCAGGAAGCCCTCTCCGGGTTCGCTGAGGCCGCGGGCACGACCTTCGTCAGTCTGGTGGTGTCCGGCCGGGTG  
GTGGCAGCAACAGAGGGTGGTGGCGGCTGGGGACGCCCCAGGCCGCTGCTGCTCCCCTGGCTGGTGGGGTCCCTG  
CCGCCGCAGACCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC  
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCCACCCCTCAGCCAGTTGTATCCACAG  
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCC  
AGTGGCTTCCCCCTTACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAAGTGAAGCGCTGCCTCTTCACC  
GTGGAGCCCTTGGGGGATAAAGAGCCTTACCAGAACAGCGCCGGCGCCTCCTCCGAACTTCTATACCCTGGTC  
ACCTCCACGCACTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC  
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTGCTGGTGGCCTTGCAGCTGGGGCTT  
CGGCGGCTGCTGCTGCTGCTGCTCTCCCAGAGTCCCACCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT  
GCCCTCACCCCACTTCTTGGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT  
TATTCGCTCACAATAATACACAGCCCCTGGATGGGGAGGGGGTAGGAGGGGCTACAACAGGTGGGGTGGGAGGG  
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGGACTCCCCCTA  
ACCCCCAGAATGTAAACAGCAGCAGATGAACAAAATAAAAATACAAAAGGCCGAAAAAAAAAAAAAAAAAAAAA  
AA

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**FIGURE 5535**

MGEETGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF  
HDSITLIVLSSEVGISELRRLERLLQMVFGAMVLLVGLEELNIRNVERLKKDLRASYCLIDSFLGDSELIGDLTQ  
CVDCVIPPEGSLLEALSGFAEAAGTTFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP  
HGSPVPHRLTLTLPSLELCLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLL  
LLHLELKRCLFTVEPLGDKEPSPEQRRRLRNFTLVSTHFPPEPGPPEKTEDEVYQAQLPRACYLVLGTEEPG  
TGVRLVALQLGLRRLLLLSPQSPTHGLRSLATHLHALTPLL

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**FIGURE 5536**

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCGGGTGCCACGGCCTGCCAGCCCCCGCCCCG  
CCCCGCCAGCCAGCCCTCCCCGCGCCGGCTCGGCTCCTTGGCGCTGCCTGGGGTCTTTCCGCCCGGTCCCCGCT  
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACGCCATCATGCCGGCCGTGTC  
CAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGAAGAGCAAAGAGCGGAAAT  
TAAGAGAATCAACAAGGAAGTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGGATGGCTACAGTAA  
GAAAAAATATGTGTGTAACTGCTTTTCATCTTCTGCTTGGCCATGACATTGACTTTGGGCACATGGAGGCTGT  
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCAATTTCTGTGCTGGTGAAGTCTGAA  
CTCGGAGCTGATCCGCCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGTGCCT  
GGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGACATCCCCCGCATCCT  
GGTGGCCGGGACAGCATGGACAGTGTCAAGCAGAGTGGCGCCCTGTGCCTCCTTCGACTGTACAAGCCTCGCC  
TGACCTGGTGCCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTAC  
GGCCGCCGTGAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT  
GTGCGCCTGAGCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTACTTCTGTCAGCACC  
CTGGCTCTCGGTGAAGCTCCTGCGGCTGTGTCAGTGTACCCGCCCTCCAGAGGATGCGGCTGTGAAGGGGCGGCT  
GGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTCCAACGC  
CAAGAAGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCAACCTCCTGGTTGGGGC  
CTGCAACCAGCTGGGCCAGTTCTCTGAGCACCAGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC  
GCTGGCCAGTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA  
GCGGGACGTGAGCGTGCAGGACGGCGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT  
CGTGTGCGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT  
CCTGGCCGAGAGTACGCCGTGGACTACAGCTGTTACGTGGACACCATCCTCAACCTCATCCGCATTGCGGGCGA  
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTACCAACCGTGATGACGTCCAGGGCTATGCCGC  
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACAGAGAATGGTGAAGGTTGGCGGCTACATCCTTGG  
GGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT  
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGCTGTCCACCTACATCAAGTTTATCAACCTCTTCCCCGAGAC  
CAAGGCCACCATCCAGGGCGTCTGCGGGCCGGCTCCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCGAGC  
CGTGGAGTACCTCACCTCAGCTCAGTGGCCAGCACCGACGTCTGCGCCACGGTGTGAGGAGATGCCGCCCTT  
CCCCGAGCGCGAGTCTGCTCCATCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGCCGCGCAGCGCCCTGGACGA  
TGGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGGCGATGGAGCCCAACCCAGCACTGTGTGACGCCCTC  
GCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCTCCCCCGGCAGCACCCCGGGCTTCTGAGGAGCAGGGAA  
CCTTCTGGTGGACGTCTTCGATGGCCCGGCGGCCAGCCAGCCTGGGGCCACCCCGAGGAGGCCTTCTCAG  
CGAGCTGGAGCCGCTGCCCCGAGAGCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC  
TGAGGACATCGGCCCTCCATTCCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGAAGAACAACGGGGTCT  
GTTGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCTGGGCCGATGTATCTCTTCTA  
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTACCCACTGTGGTTACCCGGGAGACCTCCAGACTCAGCT  
GGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG  
CCTGCGGGACTTCTGACGCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCT  
GAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCACCGAGATGGCGGCCAGGATTTCTTCCAGCGCTGGAA  
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCAACCCATGGACGCAGAAGTTACTAA  
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCTGGGGGCGGG  
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCAGGCCAGATGTACCG  
GCTGACCTGCGCACCAAGGAGCCCGTCTCCCGTACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT  
GGACTCTGCCCCGGGGATGTGGCCGGCACTGGGCAGCCCTTGGACTGAGGCAGTTTGGTGGATGGGGACCT  
CCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTCTCTCCGGCTTTTGTATTTTATTTT  
TGTTTCATCTGCTGCTGTTTACATTCTGGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTCCCCCCCCAAGCACAGA  
GGGGAGAGGGGCCAGGGAAGTGGATGTCTCTCCCTCCCACCCACCTGTGTAGCCCCCTCTACCCCTCC  
CATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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**FIGURE 5537**

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACCTTATGTGACCCCG  
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC  
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG  
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG  
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC  
GACTTGCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCTGAAAGAGGAAGAACGCCAAGAAGGGCCAGG  
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT  
TTTCTGCCAAATAAACAGGATCAGCACTTTAC

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**FIGURE 5538**

MPVARSWCHKTYVTPRRPFESRLDQELKIGNVLLRRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK  
LGLAKSIHHAGVLIRQRRVRVRNQVANIPSFIVRLDSQKRIDLRLSPYGVAAPAA

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**FIGURE 5539**

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC  
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCCGAAAGCAGTGAGAAGCCCCAACGCTGAGGACATGACATCCAAAGA  
TTACTACTTTTGA CTCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA  
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCAT  
CCTCTGCATGTTTGTGCTGCCAAGGCCGGGGCCCGCAAGGTTCATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC  
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT  
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCCTCTTCTACGAGTCCATGCTCAACACC  
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC  
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTG CAT  
CAAAGATGTGGCCATTAAAGGAGCCCCCTAGTGGATGTCGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT  
AAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG  
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC  
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC  
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA  
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTGAGGCCCCGGCTCTCCC  
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCTAGCGGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG  
AAGGGGGTTTTAGGGGCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTT  
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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**FIGURE 5540**

MENFVATLANGMSLQPPLEEVSCGQAESSEKPN AEDMTSKDY YFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH  
LFKDKVVL DVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS  
ASGWATASSTSPCSTPCSMPTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWVENYGFDMSCIKDVAIKEPL  
VDVVDPKQLVTNACL I KEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH  
WKQTVFYMEDYLT VKTGEEIFGTIGMRPN AKNNRDLDFID LDFKGQLCELS CSTDYMR



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**FIGURE 5541**

AAGTAAGTATCCCCACTTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG  
CCTCTACCTCCTGCACCTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTT  
CAACACAGAACTTCCATTCAATTCCTCCGACTGCCCGCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTT  
GAGACTGAACATCCCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT  
TCCTCTTTTCCCTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC  
TCCACTTTTCCCAGAGTACACAGCCTGCCTTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT  
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTGCGGGCGTGCGGGCAGCTGGAA  
CCCACCCCTGTCTTGAGACTCCGGGTAGCTCTCAAATCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT  
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAAATAAAACCAACTTTATCATTCTTTGGGTAACAGACCCA  
AAAGCCGATGGGACGGCCCGCTGGGGCTGTTCCCGCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG  
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCGCGCCCTTTCTACGCTGGGCCGTTATCGACCCGGCCC  
AGTGCGCAGGCGCGGAAAGTTGAACTAATAAAGTTTGACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG  
GAGGCGGCGGTGGGGCCCCGGACCAAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT  
GAGGGTCCTAGCTGCCTTCCTTAGGCGTGGTGAGGCTGCCGGGTCTCCTGTTCCAATCCACCTAGAAGCCCTGC  
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC  
CTCTGAGTCCCCCTCGGCCTTGCTCTCTGCCCATCCGCCCCTGCTATGGTTTAGAGCCTGGCCCAGCTACTCCAGA  
CTTCTATGCTTTGGTGGCCAGCGGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCCAGAATT  
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT  
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCC  
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCCAAGCCGAGCATGCCCCGGGCCCCCGCCTCCTTC  
CCCGGAGCCCCTGGCCCGCCTGGCCCTAGCCATGGAGCTGAGCCGGCGCGTGGCCGGGCTGGGGGGCACCCCTGGC  
CGGACTCAGCGTGGAGCAAGTGCACAGCTTCACGCCCCTGGATCCAGGCCCACGGGGGCTGGGAGGGCATCCTGGC  
TGTTTACCCGTGGACTTGAACCTGCCATTGGACTGA

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**FIGURE 5542**

GGTTCCAGCTGCCCCGACGCCCCGACCTTCCATCGTAGGCCGGACCATGGGAACCCCAAAGCCACGGATCCTGCC  
CTGGCTGGTGTTCGCAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGCTTCCG  
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTTCGGAATCTTCCAGGCCTGGGCCGAGGC  
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA  
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT  
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC  
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT  
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT  
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGGCGGGGAAGAGTGGGAGTTCGAGGTGACAGCCTTCTA  
CCGGGGCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCGGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA  
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA  
CGTAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCACGCG  
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA  
GGTCCCCAAGGACAAGGAAGGAGGCGTGTGTTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG  
AAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA  
GAGGCTCGTGATGGTCAAGGTTGTGCCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGGTAGGGGGTGCCTC  
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC  
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCTAGCCCTCGCTCCTCATGGTGT  
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTTCCTGCTATGAA

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**FIGURE 5543**

MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLP  
WKRNFSAALNRKEGLRLAEDRSKDPHDPHKIYEFVNSGVGDFSQPDTSFDTNGGGSTSDTQEDILDELLGNMVL  
PLPDPGPPSLAVAPEPCPQPLRSPSLDNPTFFPNLGPSENPLKRLLPGEWEFEVTAFYRGRQVFQQTISCEP  
LRLVGSEVGDRITLPGWPFVITLPDPMGLTDRGVMSYVRHVLSCGGGLALWRAGQWLWAQRLGHCHTYWAVSEEL  
PNSGHGPDGEVPKDKEGGVFDLGPFIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMKVVPCLRAL  
VEMARVGGASSENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT  
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGCTCTATCCTCTACTTCCATCCTTTCT  
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCCAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA  
AGACAGAGGAGTCTGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTCGCTTTA  
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCAATGATAAAGATGGCTCTCGGT  
GTCATGGCCTTCGATGGCGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCCAGGAATCAGGGGGCACTGACA  
CGGCTACTGTGTGGACATGGCCACGGACAGCTTCTCGCAGGGCTGGTGAAGTGTCTGGATCCCCCGGATACCT  
GGGTTCACAGCCGCTGGACCTGCGGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG  
GGGACAGAGATCCCATCCTCTGCTGTGCCAGCCTGCTGCCCCGTCTCAGGGCTGGAGGACGGGCAAAACGG  
TTTCTCCACAGTCAACTCCTTAGGCCACCTGTGCCCGTACCTCACCTTGGGCACGGGAGACGGGGGCCCTG  
CCCCACCCCTGCCCCCTCCTGTCATCCTCCTCCCTTCCCTTCTCCTCATCTCCTCCCTTCCCTTCCCT  
CACCCACCCGCCCCCTGCACCCACAGCCCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCACCG  
ACGAGGCCTACTCTCCACCGCTGCTCCGGAGCAAAAGTACGACCTTTTGAAGCCACCGGCTCCAACCCAGCT  
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGAGGAAGACGAGG  
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCTGGCGGGCATCTACGATGACAACAGCC  
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCCGCCGGACGCGCAGCCACACAGCCGACTCCCGCCCTGGAA  
CGCCGCCCCAGGTGGACTCCACCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGGACCGAGGCAG  
AGGCTTGTGGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGTGGTGGAGCCGCCCTCCCGCCGCCCTGCTGC  
CGCCCGGCGACTCGGAGATCAGGAAGGGGAGATCGTCCAGCCGGAGGAGAGCCAGGCTGGCGCTGTCCCTCT  
TCCGCCCCGCGCGCCGGGCGCCCGGCTTACACGGCGCCTCGGCCACCCACAGGCCAGCCCTTCTCTCAGC  
CTCCGCTCCCGGGCCCCCGAGGGGACGACTTCTGTCCCTGCATGCGGAGTCGACGGCGAGGGCGCCCTGC  
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCCCGCCGCGACTCGCGCTGGGGCGGCTGGACCTGCGCCGCA  
AGATCCTGACCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGCGCCCGCGCCCGCCCGCCGCG  
CTGCTGGTCCGCCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT  
CCTCGTCGGGACCCAGCCAGCGCCGCCCGCCCGGCTCGCCCTGGGACTCCAAGAAGCACCGCTCGCGGGACC  
GCAAGCCCGGCTCCACGCTCGTCTCGCCCGCCCGCGCTCCCGCTCCCGCTCCCGCTCCACCCGCC  
GCCGCTCGCGCAGCACCGACCGCCGCCCGGGGGAGCCCGCAGGTGCGGGTCCCGGGAGAAGCGGCGACGGCGGC  
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCGTCTGCTCTCGAGGCGGAGCGGCACCGCGGGAACACC  
GGGACGGTGGCGGCAGCAAGAAGAAGAAGAGCGGTGCGCGGTCCCGGGGTGAGAAGCGGTCTGGGGATGGCAGCG  
AGAAGGCCCGCGCCCGCCCGCCCGCTTGGCTCCACCTCGTGTGGTGACCGCGACAGCCCGCGCCGGGGG  
CCGTGCCACCTCCATCCAGGACCTCACGGACCACGACCTCTTCGCCATCAAGCGGACCATCACGGTGGGCCGGC  
TTGACAAGTCCGACCCCGAGGACCTCTCTGTCCGGCCTCTCACCTAAGCGGGAGGTCTGTACGACTCCG  
AGGGACTGAGCGCGAGGAGCGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCCGCTCGGGGGCCGCTCTCTCT  
CCTCTCTTCCCGGGAGAAGGGGTCTCGTCCGAAGCGCTGGACGGGGTGACCGGGATCGGGACAGGGACAGAG  
ATAGGGACAGGGACAGGTCTATCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCGCCAA  
AGCCACCAGTCAGCAGCGGCTCAGGCTCTTATCTCTCGTCTCTCTGTTCTTCCCGGAAGGTGAAGTGCAGT  
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTCTAGCAGCACCACCCCGGCCAAGGATGCCGCGTCAGCCGGCCTGG  
GCTCCATTGGCGTCAAATTACCGGTGACCGCGAGAGTCTGCTCCCTTCTCTCAAACCTGACGAGCGGGCCCCCA  
CTGAGATGGCCAAAGCAGCTCCGGGCGACCAAGCCCCAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA  
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCCAAGACCAGGAAAAAGGTCCGCACTGGAGGTGGCAGCGGG  
GCAGTGGTGGCCAGGTGTCTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGCAGGCACCAAGGGGGCGG  
AGGAGACTTCTGGTCCGGGAGGAGCGGGCAGCCAAGGTTCTAGCACCCCGCCCCCAAGGCAGCCCCACCAC  
CCCCTGCCCTCACTCCGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCTTCTGCCCCGAGG  
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG  
AAGAGGAGGAGGAGCAGCAGCCTGCTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCCA  
GCGCGGGGTCCACAGCCGGTGAATCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC  
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGGCGTCTGGCCTTGACTGCACTTC  
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCCAGGAGCTGATCCAGGCCACCAACCAGATCC

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**FIGURE 5544B**

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCAGCTCCTGTGCCACCTCTTTGGGTCTGCCCCCTG  
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTCGACCCCCCCCACCCCCACGGGC  
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA  
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA  
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC  
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG  
GGGACCCCCCAGGGCCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC  
CCCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT  
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC  
CCTGCCCCGTGTCCACCTCCCTTGCCCCCAAGCCTGTCCCCAGTGCCCCCTCCCTTCTGTTTGTGCCCTCTCCCC  
AATTTCAATTAAGATTTTCATGAAACATT

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**FIGURE 5545**

MSILYFHPFSRDLHSLSPDPQVTMEEEDSRGKTEESGEDRGDGPDRDPTLSPSAFILRAIQQAVGSSLOGD  
LPNDKDGSRCHGLRWRRCSRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESDM  
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKTVSPQSNSSRPTCARHLTLGTGDGGPAPPPAPSSASSSPSPS  
PSSSSPSPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSPPPAPEQKYDFFPTGSPSSSAGTPSPEEEEEEEE  
EEEEEEEEEEEEGLSQSISRISSETLAGIYDDNSLSQDFPGDESPRPDAQPTQPTPAPGTTPQVDSTRADGAMRR  
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEPRLALSIFRPGGRAARPTPAASA  
TPTAQPLPQPPAPRAPEGDDFLSLHAESDGEALQVDLGEPAAPPAADSRWGGLDLRRKILTQRRERYRQRSPS  
PAPAPAPAAAAGPPTRKKSRRERKRSGEAKEAASSSSGTQAPPAPASPWDSKKHRSRDRKPGSHASSSARRRSR  
SRSRSRSTRRRSRSTDRRGGSRRRSREKRRRRRRSASPPPATSSSSSSRRERHRGKHRDGGGSKKKKRSRSR  
GEKRSBGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGSPAPASS  
PKREVLVDSEGLSGEERGGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRSSKKARPPKE  
SAPSSGPPPKPPVSSGSGSSSSSSSSSRKVKLQSKVAVLIREGVSSSTPAKDAASAGLGSIGVKFSRDRESRSP  
FLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKKTKGTGKTKPSKTRKKVRSGGGSGGGQVSLKKSKADSC  
SQAAGTKGAEETSWSGEERAAKVPSTPPPKAAPPPPALTPDSQTVDSCKTPEVSFLPEEATEEAGVRGGAEEEE  
EEEEEEEEEEEEQQPATTATSTAAAAPSTAPSAGSTAGDGAEDGPASRVSQLPTLPPMPWNLPAGVDCTT  
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSLGMPAPVPTSLGLPPGPSSYLLPGSLPLGGC  
GSTPPTPTGLAATSDKREGSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYQKKDITKEEYKDILRKAVHKI  
CHSKSGEINPVKVSNLVRAIVQRYRYFRKHGRKPGDPPGPPRPPKEGPPDKGGPGLPLPL

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**FIGURE 5546**

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT  
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCCATTTACGCCTCCCGAGTAGCT  
GGGATTACAGGATGACGCGGCATGGCAAGAAGTGCACCGCAGGGGCCGTCTACACCTACCACGAGAAGAAGAAGG  
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTTCGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT  
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTACCCCAAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG  
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCGGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG  
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG  
TGAGCCGGCCCTCAACCCCTTTCACAGCCAAGGCCCTCTCGGGCACCCAGCCAGATGATGTCCAACCTGGGCCCA  
GTGTGGGTCTCCAAGTAAGGACAAGGACAAAGTGCTGCCCAGCTTCTGGATCCCGTCGCTGACGCCGAAGCCA  
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCATGTGAGGGAAGCCCTGCGCATGTGCGGACC  
TGACGCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGGTGGGGCTCATCACCCGCAGCGAGCGCTACG  
TGTGTGCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA  
CCCTCGAATGCGTGGAGAAGCTGATTTCGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCG  
ACATCATCGTGCTGCAGCGGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC  
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAA

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**FIGURE 5547**

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNI RLSRDAVKDFDCCCLSLQPCHDPVVTPDG YLYEREAILEYIL  
HQQKEIARQMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP  
PSKDKDKVLPFSWIPSLTPEAKATKLEKPSRTVTCMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSERYVCAV  
TRDSLSNATPCAVLRPSGAVVTLECVKLI RKMVDPVTGDKLTDRDIIVLQRGGTGFA GSGVKLQAEKSRPVMQ  
A



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**FIGURE 5548**

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACCTAAGGA  
GGCTTCCAGAAGATTTTGATTAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC  
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAATTCCTTGAGCGGCAG  
ACACCCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAACCACAAGCGTTTTGAGAAACAAACAGG  
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGTGGGGCTGGATGTTCTTGGAGTCAGGGAGCAGCAGC  
CTCCACAGGATGTGAGAGAGGAACCTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGAGGCAGGA  
AGCGGAGCGAGGCTGAAGGGAACCTTCCTCTCAGCATGGGGGTCCCGCGGCTCAGCCCTGGGCGCTGGGGCT  
CCTGCTCTTTCTCCTTCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC  
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCGCAGCAGTACCTGAGCTACAATAG  
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACAGGTGTCTTGGTATTGGGAGAAAGAGAC  
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGAAAAGGTCCCTACACTCT  
GCAGGGCCTGCTGGGCTGTGAACCTGGGCCCTGACAACACCTCGGTGCCCACCGCCAAGTTCGCCCTGAACGGCGA  
GGAGTTTATGAATTTGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCG  
GTGGCAGCAGCAGGACAAGGCGGCCAACAAGGAGCTCACCTTCTGCTATTCTCCTGCCCCGACCGCCTGCGGGA  
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG  
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCTCCGGAGCTGCAACTTCGGTTCCTGCGGAA  
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCGTCACCT  
AACAGTCAAAGTGCGGATGAGCACCCTACTGCTGCATTGTGTCAGCAGCGGGGCTGGCGCAGCCCTCAGGGT  
GGAGCTGGAATCTCCAGCCAAGTCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC  
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTGGATCTCCCTTCGTGGAGA  
CGACACCGGGGTCTCCTGCCCACCCAGGGGAGGCCAGGATGCTGATTTGAAGGATGTAAATGTGATTCCAGC  
CACCGCCTGACCATCCGGCATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCTTTTCATGCTGTGAGACCTCCT  
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTCTGGGCCTAGTTGTCTCCTCCTCTGGAGCCCCGTCTGTGG  
TCTGCCTCAGTTTCCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCCC

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**FIGURE 5549**

TTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTGAGCTGAGCGTGCCTACCAAAGCAGCCGACCATCT  
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC  
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCTTCACTGGTAATGTGT  
CCATTGAGGGCGGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTATCCGCCGAGACT  
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT  
TCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGGCCTTCAACG  
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCCGCTCCC  
CACAATGAAATAAAGTTATTTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5550**

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG  
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACAT  
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCCCTCCGCAAGCGGATGAACACCAACCCTTCCCG  
AGGCCCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA  
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAGAAAAAGCGGAT  
GGTGGTTCTGCTGCCCTCAAGGTCTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA  
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA  
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC  
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTGAGGCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT  
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA  
TAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC  
AGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG  
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC  
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC  
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGA  
AAAAAAAAAAAAAAAAA

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**FIGURE 5551**

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAFLRKRMNTNPSRGPYHFRA  
PSRIFWRTVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVPALKVVRLKPTRKFAYLGRLAHEVGWKYQ  
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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**FIGURE 5552**

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGCAGGGCCCCGCGCCCGGAGATCTTC  
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC  
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAGGATCCCATCACA  
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGACTGGGCGGGCTGTTT  
GAGAGGTTTCGAGACGGGACGTCCAGCTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG  
AGGAGGCACTGGCAGGTGGGAGCCCATGGGAGTAAATTGGCCTCATCCTGCCACCCACATTCTCCTTCCTTGAGA  
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCTCCCCGGCGC  
CCCTCCTCCTGGCCAGCTGGCGGGGAGCTGGGCCCCCTTCCCGGGAATCCTGAATGTCTCAGTGGCCCTGCGT  
CCCTGGTGCCCATCCTGGCCTCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGAGGAAGGGCGTG  
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCTGGCGCTGGGGACGGAGTCGCTGCTGCTGA  
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGTGACGCCGCTGTCGACCGCGGCCCGGGTGGCC  
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA  
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGGCCGGGGGGCTGCCGATGTGACCTGGTCCAGCGCTTTG  
TGCGTGAGGCCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGATGTGCCCTTCGGAACGCCATTCTATCCCC  
CAACCTTGGTCTCCAACCTGCCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTCTGTCGCT  
CCCCCTTCGCGACAGCCAAGGAGGCACTGTTGGTGGCCAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGA  
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCCACGGCC  
TCAGAGACCCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTGGCACGGGGGCCAGACGGGCTGT  
ATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCGGCTGTCTGCTCTCCAAGAACCTGAACATATGACACCTTTG  
GCCTCGCTGTGTCCCTCAACCTGCCGGCTGGGCTGAAATAGGGCCCAGCCAGCACCCCCCTATGGGCTCTTCG  
TTGGGGGCGGCTTTCAGGCTCCTGGGGCCCCAAGCTCCAGGCCATCCGGGATTCTGTGGCAACCTCCATGGCT  
ACGTGGCTGAGGGTGGAGCCAAGGACATCCGAGGTGCTGTGGAGGCGGCTCACCAGGCTTTCCCTGGCTGGGCGG  
GCCAGTCCCCAGGAGCCCGGCGAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCGGAAGTCTACCTTG  
CCTCGAGGCTGGAGAGGCAGGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC  
GGGCGTGGGGGGCCCGGTGCAGGCCCAAGGCCACACCTGCAAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC  
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGACGAGTGGCCCTGTCTGCTTGGTGTCCCTGCTGG  
CTCCCCGCTGGCCTACGGCAACACTGTGGTCATGGTGCCAGTGGGCTGTCTCTGCTGGCCCTGGAGGTCT  
GCCAGGACATGGCCACCGTGTTCAGCAGGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT  
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTTCGGATCAGCCCAGGGTTCCAGTTTGTGAGTGGG  
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGCCCTGGGACCAGGAGCCGAGGGG  
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGGACTTGATGCCTGAGCG  
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG  
TTCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGTGTAGCAACTTCT  
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTGGAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG  
CAGTGGCACAATCTCGGCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT  
AGCTGGGGCCACAGACATGCACCACACACCTGGCTCGAGGCCATTTAGTTCTGAGGTTGAGCAGCTCAGGAGC  
CGGCTCCAGCACGGTGTGTGTTGTGAAACAGAGAAAGGGGACCCCGAGGACCCAGACAGGGCCTTAGGACT  
CTCATATCTTCTGTCTTCTCCATCTGGTGGCTCTGCTCTGTGTTTCTCTACCTTTTCATGGCCCCAGAATC  
CATATGCAGTAAAGGAACCTCTCTGGAATAAAATTAAAGTCCTCCT

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**FIGURE 5553**

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ  
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGGLRLLIQESV  
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRFVREASQGAQVFQAGDVPSEPFYPPTLVSNLPP  
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQVGTVWINAHGLRDP SVPTG  
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG  
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA  
ELKAAEALEVELSARRLRAWGARVQAQGHTLQVAGLRGPVLRRLREPLGVLAVVCPDEWPLLA FVSLLAPALAYGNT  
VVMVPSAACPLLALEVCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV  
WASRGCPRAWDQEAEGAGPELGLRVARTKALWLPMD

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**FIGURE 5554**

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCCTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCGG  
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG  
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT  
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTCCG  
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC  
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT  
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT  
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG  
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA  
GGGAGGGCCTTGAGGACAAATACAACCTTGCACTGAATCCGGAATGGCGCATGATGAAGAACCGCCATTTCATGG  
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCCCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCCG  
CCCCCGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG  
CCGAAGTTGACCTCCCCAACTGGATGGAGCCCTGGGGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTGATGG  
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT  
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGGTGCCTTCTTGATCAGGGTGTCTCCTTG  
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAAGATTTTTGCCTTTAAAAAAA  
AAAAAAA

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**FIGURE 5555**

MANPKLLGMGLSEAEAIGADSARFEELLQASKELQQAQTTREPTQIQPGFCIKTNSSEGKVFINICHSPSI  
PPPADVTEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQCTAYDVAVNPDFYRRMQNSDFLRELVITTIAREGL  
EDKYNLQLNPEWRMMKNRPFMGSISQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHNLWLEAPDLLLAED  
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKAAFHRKRKQLMVAMPLLPVPS



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**FIGURE 5556**

CCCACTTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCCGCGGCTCCCCAGCCCC  
AGGCCGGGAGGCCAGATGAGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA  
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCGGATGCAGAGGGGGTGTG  
GAGCCCAGACATTGAGCAGAGCTTGCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGAAAAATAATTTT  
GTCTGATGAAGGCAAGATGTATGGTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGAAGACCCG  
AACTCGAAAAACAGGTTTCTAGTCACATCCAGGTTTGGCCCCAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA  
GGACCAGGTTTCCAAGGACAAGGCTTTCAGACAATGGCAACCATGTCTCTGCCAGCTCATCTCCGCGCCTTC  
TCTGCAGGCCAAACTGGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTTGGTCTGGAGGATCTGGGCC  
CCCCTGGAATGTTCAGATGTGAAGCCATTCTCAGACACCGTTACCTTGTCACTGACTCCCCCATCTACTGA  
CCTCCAGGGTACGAGCCCCCAAGCCCTCTCACCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC  
TCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATT  
TTACCAGAGGCACCTGTTTCGTGCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCCGCTCGAGAGTGTGGA  
CGTCCGGCAGATCTACGACAAATCCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCA  
TGCTTCTTCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGTTGGCAG  
CATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCCTACCTGTTCTC  
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGGCCAGCTGGAGGACGGCAGATT  
TGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTCTTGCACAAGTTGCGGCAGCTGCCTGA  
GCGATACATGATGAACAGCGTCTGGAAAACCTTACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACT  
GCTGCTCTGCACCGCCTATGTCTTCAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACATTTACCGCTGGT  
CAGGGACTGAAGGGGGACCCCAAACTGGCTCACCCCCAGAACACCTCCTCCCAGGGAGGGTCTCCAGCTCA  
CCTCATGCTTCTTATTTGGGAGAGGGCTGTGATGTAAAGGGTTGACCTCAGAGGCCTAAGCAACTGGGGCCAT  
CCCCCATTAGAGGGGCCCCCAAACTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG  
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGA  
GACAACCCCCCAGGTACAGCACTGGCTTTTCTTTTCAGCCCTGACAGGCCACCCCACTCCTCTGCATGTCTTG  
GAGAGCGCTAGTTACACATTGGCTTGTCCCTTTTACTTTTTCCCAGCCACCCCTCCCCCTGAAATTTCTGCCCT  
CTCTACCACCTCACTCCATGACCTGTGAGATCACAAAGTGAAGATGAACCCCTTTCTGTGCAGGAGCAGAGCCAG  
GTGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC  
TCCGCTGCACAAGCAGTGTGTTGAATTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC  
TTCTTCCCTCTCAAAGTTTGTGTTGTTGTGTTCTGACAGAGGATAAAGCTATTTTACCAAAAAAAAAAAAAAA  
AA

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**FIGURE 5557**

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK  
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL  
GPTGPQASELFQFWSGGSGPPWNVPDVKPFSTPFTLSLTPSTDLPGYEPPQALSPLPPPTPSPPAWQARGLGT  
ARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDVRQIYDKFPEKKGGLRELYDRGPPHAFFLV  
KFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLCSSKVCSTGKQVVEKVETERAQLEDGRFVYRLL  
RSPMCEYLVNFLHKLRLPERYMMNSVLENFTILQVVTNRDTQELLCTAYVFEVSTSERGAQHIIYRLVRD

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**FIGURE 5558**

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG  
AATCGGTGCCCCTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT  
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTCCG  
GGCAGTCCCTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCC  
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA  
GGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA  
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACTGACCCTCAAGACCACAGAGATGGAGACCAT  
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA  
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGGACTACGACGCTATGGGCTCCCA  
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA  
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA  
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT  
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC  
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT  
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT  
CCGCATCCGGTGCAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA  
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGAAACGCAAGGGTACAGAAGT  
GCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCTGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA  
CCAGGACGCCCTTCTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTTGAGTTGGATGTATCCCCGAC  
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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**FIGURE 5559**

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI  
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIEGEVVEIQIDRP  
ATGTGSKVGKLTTLKTEMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGRSFTRARDYDAMGSQTKFV  
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE  
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC  
EEEDVEMSEDAYTVLTRIGLETSRLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSSTQYMKEYQDAF  
LFNELKGETMDTS

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**FIGURE 5560**

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT  
CGGCCCCGCACCCTACCTGGTGCATTCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT  
CCTGCGCCAGCCATGCCCTTTAAACCGCACTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA  
TTCGACCTGGAGAACGCAGTGTCTTTCGAAGTGGCTGGGAGGTGGCTAACAAAGGTGGGTGGCATCTACACGGTG  
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACCTACTTCTGGTGGGGCGGTACACGGAGCAG  
GGCGTGAGGACCCAGGTGGAACCTGCTGGAGGCCCCACCCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC  
AAGGGCTGCAAGGTGATTTTCGGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGTCTCTGGACGTGGGTGCC  
TCAGCTTGGGCGCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC  
GAGGCCAACGACGCTGTCTCTTTGGCTTCTGACCACCTGGTTCTGGGTGAGTTCTGGCACAGAGTGAGGAG  
AAGCCACATGTGGTTGTCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTGCCCGGCGACTG  
CCTGTAGCAACCATCTTACCACCCATGCCACGCTGTGGGGCGCTACCTGTGTGCCGGTGGCGTGGACTTCTAC  
AACAACTGGAGAACTTCAACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG  
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCAGATCACCGCCATCGAGGCACAGCACTTGTCTAAG  
AGGAAACCAGATATTGTGACCCCAATGGGCTGAATGTGAAGAAGTTTTCTGCCATGCATGAGTTCCAGAACCTC  
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC  
AAGACCTTATACTTCTTATCGCCGGCGCTATGAGTTCTCCAACAAGGGTGTGACGTCTTCTGGAGGCATTG  
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCAGCAGACAGTGGTTGCCTTCTTCATCATGCCAGCGCGG  
ACCAACAATTTCAACGTGGAACCCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAACACGGTG  
AAGGAAAAGTTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT  
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTTCCCCCTGTGTGCACCCAC  
AATATGCTGGATGACTCCTCAGACCCCATCTGACCACCATCCGCCGAATCGGCCTCTTCAATAGCAGTGCCGAC  
AGGGTGAAGGTGATTTTCCACCCGGAGTTCTCTCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT  
GTCCGTGGCTGTACCTTGGAGTCTTCCCCTCCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT  
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCGGCTGCTTTCATGGAGGAACACATCGCAGACCCCTCA  
GCTTACGGTATCTACATTCTTGACCGGCGGTTCCGCAGCCTGGATGATTCTGTCTGCAGCTCACCTCCTTCCTC  
TACAGTTTCTGTGTCAGCAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGGAGCGCCTCTCCGACCTTCTG  
GACTGGAAATACCTAGGCCGGTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCTTTCCAGAGCACTTC  
ACCTACGAGCCCAACGAGGCGGATGCAGGCCAGGGGTACCGCTACCCACGGCCAGCCTCGGTGCCACCGTTCGCC  
CTCGCTGTACGACACTCCAGCCCGCACCAAGAGTCAAGGACGAGGAGGATCCCCGGAACGGGCGCTGGAGGAAGA  
CGGCGAGCGCTACGATGAGGACGAGGAGGCCGCCAAGGACCGGCGCAACATCCGTGCACCAGAGTGGCCGCGCCG  
AGCGTCTGCACCTCTCCACCAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC  
CCCCAGCGAGCCCCCTAGCCCCACCAGTCCCTGGGCGAGGAGCGTAAGTCCGCCCCACCACACTCCCCGC  
CTGTCTGCCTCTCTGTCTCCAGAGAGAGGATGCAGAGGGGTGTCTCTCTAAACCCCCGCTCCAGATCTGCACTG  
GGTGTGCCCCCGAGTGCCCCCACCCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCTCTGC  
ACTCCAGAATCCACAAAGCCGTGCCTTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCCTGGGC  
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG  
GTGCTTTCAGGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATCTTACAGCATACAGAGCAGGCCACGCT  
CAGGCCCGGCATGCGGGCCACCAAGTTCTGGAAACACGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC  
CGGGGCACTTTCAGAGTTTGAAGGTAACCTGAGAGCAGATGGTCTCCATTTCACTCCAGAAGTGGGGCTCTGGG  
AGGGATGTTCTAGCCCTCCCTGGCATGTGAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCTCAT  
CCCCCTACACTTTGGCCAAGCAAGAGGTGGTAGAACCACTTGGCTGTCTATTCCTTCTGGAGGACACACAGTCTCA  
GTCCAGATGCCTTCTGTCTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTTCTAAATCTGAGATCTCCC  
TCCAGGGAATCCGCCTGCAGAGGACAGAGCTGGCTGTCTCCCCCACCCCTAACCTGGCTTATTTCCAACTGCTC  
TGCCCCACTGTGAAACCACTAGGTTCTAGGTCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT  
CCCTTTCCCATGATCCAGAAGTGAAGTCACTGGGTTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC  
AACTGTGCCCTGCCTTCAGCTTTGGTGAAGGGAGGGCCCCCTCATGTGTGCTGTGTGTGCTGACACCGCTTGG  
TTTGCAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA  
TATTTAAG

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**FIGURE 5561**

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQGVRT  
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLI EGGLVVL LDVGASAWALERWKGE LWDTCNIGVPWYDREAND  
AVLFGFLT TWFLGEFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE  
NFNVDKEAGERQIYHRYCMERAAAHAHVFTTVSQITAIEAQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS  
KARIQEFVRGHFYGHLDENLDKTLTYFFIAGRYEFSNKGADVFL EALARLNYLLRVNGSEQTVVAFFIMPARTNNF  
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQRQSFPPVCTHNMLD  
DSSDPILTTIRRIGLFNSSADRVKVIHFPEFLSSTSPLLPVDYEEFVRGCHLGVPFSPYEPWGYTPAECTVMGIP  
SISTNLSGFGCFMEEHIADPSAYGIYILDRFRSLDDSCSQLTSFLYSFCQQSRRQRIIQNRNTERLSDLLDWKY  
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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**FIGURE 5562**

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC  
GCCCTCCGATTTCTCTCCGCTTGCAACCTCCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG  
CACCGTTTTGTGGTTAGCTCCTTCTTGCCAACCAACCATGAGCTCCAGATTCGTGAGAATTATTCACCGACG  
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATT  
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT  
ACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG  
ATGAGTGGGGTAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGG  
ATCTTCATGCCCTGGGTTCTGCCCGCACGGACCCCCATCTCTGTGACTTCCTGGAGACTCACTTCCTAGATGAGG  
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGG  
GCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGACTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC  
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTCTTAACATCCTAACAAAG  
CCTTGGACCAAATGGAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5563**

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEKREGYERLLKMQNQRGG  
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT  
NLHRLGGPEAGLGEYLFERLTLKHD



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**FIGURE 5564**

GCTGCGGCCGCCCCGCGCGGACCCGCGGAGAGGCGGCGGGAGCGGCGGTGATGGACGGGTCCGGGGAGCAGCC  
CAGAGGCGGGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA  
TCGAGCAGGGCGAATGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAA  
GCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT  
GGACACAGACTCCCCCGAGAGGTCTTTTCCGAGTGGCAGCTGACATGTTTCTGACGGCAACTTCAACTGGGG  
CCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAACGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAACGTGAT  
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTG  
GGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCCCTCACCACCGCCCTGCCCCACCGTCCCTGCCCCC  
CGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTCACAGTGGTGCCTCTCCCCATCTTCAGATCATCAGA  
TGTGGTCTATAATGCGTTTTCCTTACGTGTCTGATCAATCCCCGATTATCTACCCTGCTGACCTCCCAGTGACC  
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT  
CAAGTTCATTGATGACCTCTGACCCTAGCTCTTTCCTTTTTTTTTTTT

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**FIGURE 5565**

MDGSGEQPRGGGPTSSEQIMKTGALLLQGFIQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDELDNME  
LQRMIAAVD TDSPREVFFRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVP ELIRTIMGWTLDFLRERLLG  
W IQDQGGWVRL LKPPPHHRALT TAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYN AFSLRV



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**FIGURE 5567**

MPPSGPRGTLILLPLLLLLLLRAVLAVPLERGA PNKEETPATESPDTGLYYHRYLQEVIDVLET DGHFREKLQAA  
NAEDIKSGKLSRELD FVSHHVRTKLDELKRQEVSRMLLKAKMDAEQDPNVQVDHLNLLKQFEHLDPQNQHTFE  
ARDLELLIQ TATRD LAQYDAAHHEEFKRYEMLKEHERRRYLES LGEEQRKEAERKLEEQQRRHREHPKVNVP GSQ  
AQLKEVWEELDGLDPNRFNPKTFFILHDINSDGVLDEQELEALFTKELEKVYDPKNEEDDMREMEERLRMREHV  
MKNVD TNQDRLVTLEEF LASTQRKEFGDTGEGWETVEMHPAYTEELRRFEEELAAREAE LNAKAQRLSQETEAL  
GRSQGRLEAQKRELQQA V LHMEQRKQQQQQQGHKAPAAHPEGQLKFHPD TDDVPVPAPAGDQKEVDTSEKKLLE  
RLPEVEVPQHL

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**FIGURE 5568**

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA  
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC  
CCCGGCGAGCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG  
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG  
CTGTTTGGAGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCCCTGGCTCAACATGGAC  
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGG  
CTCATCGAAGTGGAACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG  
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCAGGCGCGCGCTCCTGTTTCGTCATTCTCTGCCCAGTGGGTGCCTAC  
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC  
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA  
CAGGTCTCTGGCTGTATGGGCCCCGACCACCAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC  
CACGAAGATGGGTGCTGGAGCTGGTGACGCCCCCGCTGAATGGTGTATCCTGCCTGGAGTGGTCAGACAGAGT  
CTACTGGACATGGCTCAGACCTGGGTGAGTTCCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGG  
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCCTTGCCAGGTCTGCCCAGTGCACCGAATC  
CTGTACAAAGACAGGAACCTCCATATTCCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG  
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA  
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA  
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCG  
ACCCAGGCATCTTGGCCCCAGCCCTCGTCGCGGGTTTCAGGTCCGCCCATTA

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**FIGURE 5569**

MAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGGPELVFGKTFDHLMLMVEWNDKGW  
GQPRIQPFQNLTLHPASSSLHYSLQLFEGMKAFKKGKDQQVRLFRPWLNMDRMLRSAMRLCLPSFDKLELLECIRR  
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFPGGSVTPVSLLADPAFIRAWVGGV  
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRQS  
LLDMAQTWGEFRVVERTITMKQLLRALEEGRVREVFGSGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE  
LKEIQYGIRAHWMPV

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**FIGURE 5570**

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG  
AGAGCCCACCGCGCCACAGCTTGGAGGAAGAGCCTGCGGGGAACCTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG  
GTGCTGGCTCTGCTGTGACCATGCCCCGTGACCTTTGCCCTCCTGCTCCTCCTGGGCCAGGCCACTGCGGACCCAT  
GCTACGATCCACAGGGCGCCCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCCCTCTGCC  
CTCAGGCCTGTGCCCTGTCCCAAGGAAACCACCTTGGCGCCAGGGAACCTGCAATGGCAGCCTGACTTTGGCCC  
TGGGTGGCCCTTCCTCCTGACATCTGTGACGCTTGCCTTCTGTACCCCAGGACCCCCAGCCCTCATCCTGTCTG  
CTGCCTGGGCCTCAGGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG  
AAAGGGTGACCTTCCACTCCACACCAGGTCCTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG  
GCCAGGCCGGGTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTGATGGCCACGCTGCCCGCTGTGCCGCCC  
GTGCCCGGCCCGCTGCCACTGCCGCCACCATAACCTAGGCCGGGGTGGCAGAGCTGCCGCCCGTCCCATC  
GAGACTGGCCCTGGCGGCCTGCCACGCCCGGCCACCCCAACCTTGCCTACCCTGCTCCTGCAACCAGCAGCCCC  
GACGCTGCCGGTTCAACTCTGAGCTGTTGAGACTGTGGGGCGGCCGAGTGGGGGTGTTGTGAGCGGTGCCGCC  
ACCACACAGCTGGGCGGCCTGCCACTACTGCCAACCTGGGTTCTGGAGGGACCTAGCCAGCCTATCTTCAGCC  
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACCAGTGGGCAGT  
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCCA  
GGATGCCCTGCCAGCGAATTCCAGAGGCAACAACCAACCTTGCCACTACTCCTGGTGCTTATAGCTCTGACCCCTC  
AGTGTCAAACTACTGCAATATGTGCGACACCAGGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG  
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGCGGGCCCGGCATGGCAGCGGCTGGCCGTGCGCGTCTGGCCG  
TTTACAAGCAGCGGGCGCAGCCCGTGCAGCGCGCGACACAGGACGCTGGGTGCCCCGCGCCGACCTGACCTGCG  
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGCGACCCCGACCCACGCGCC  
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGCCCCGGCCCTGAAGCGGCTGCAGCAGG  
AGGAGCGCGCGGAGGCTGCCGCGGCGTGCGGGCACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG  
GGGCTGCCTCGAGACCAACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCAGTGA  
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCACGCCGAGCAGGCGTGCAGAACTTTT  
AGCAAAAGGCGGCAAGCGGGACTTCTGGTCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCGCCGCCAGTGAT  
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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**FIGURE 5571**

CTTTCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG  
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC  
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGCCGCCTCTGTCCCTTTC  
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAACTGATGAT  
GTGCGGGTTCAGGAGGTACCCAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGAGCCGCATCCTC  
AGGGCAGGGGGCAAGATCCTCACTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC  
TCCGGTCTTCGCAAGGGCCGAGAGGTGTACCGGCATTTGGCAAGGCCCCAGGAACCCGACAGCCACACCAAA  
CCCTACGTCCGCTCCAAGGGCCGAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTTAA  
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTGTGCTGACAAAAAAA



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**FIGURE 5572**

MGVDIRHNKDRKVRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPLSLSRMIRKMKLPGR  
ENKTAVVVGITITDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKCGTVLLSGPRKGREYR  
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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**FIGURE 5573**

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA  
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC  
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCTCCAGGTGGTGGGGCAGGTGCT  
TCCATAGCCCCCTCCTGGCTCCTTGGCTTCCCCTCCCTCCTCTCCCCACAGACCCTACGTCCGCTCCAAGGGCCG  
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCTGGATCCTACTCTCTTATTA  
AAAAGATTTTTGCTGAC

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**FIGURE 5574**

GGCACGAGGGTTCTGAAGATGGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG  
AGTCCGGCGACACAAGTTCCGAGGGCCCGGCCAGGTCTACCTGCCCGCCGGGGGCCCGCTACGCGAAGGGG  
AGGAGCTGGTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG  
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCCTCTTACACTTTACTTGTGTGCTGGGACCCAGG  
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCACCCCTCAG  
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA  
TGGTGCCCCACTATGGTGGCATCAACCGAGTTCCGGTGTGTCATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT  
CAGAGAAGGGCCAGGTGGAGGTGTTTGCCTGCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG  
CCTTCCTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCCC  
TTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAGAACATCCACCTCTGGACACCTA  
CGGACGGCGGCTCTTGGCACGTGGACAGCGGCCATTGCTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT  
CACCGACTGAGAACACGGTGTGTTGCCTCTGCTCAGCTGACGCTCCATCCGCATCTGGGACATCCGGGCAGCCC  
CCAGCAAGGCCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTGTCATCAGCTGGAGCCGCCGGG  
AGCCCTTCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCC  
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTGAGTGGCACCCCCAGGACAGCGGGGTCTTTG  
CAGCCTCGGGTGCAGACCACAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCCTGAGGCGGGCGACGTGG  
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACCAGGGCGAGACCGAGCTGAAGGAGC  
TGCACTGGCACCCGCAGTGCCAGGGCTCCTGGTCAGCACGGCGCTGTCAGGCTTCACCATCTTCCGCACCATCA  
GCGTCTGAGGCGTCCCACTGGCTCTGATCTTGCTTCTGCTTGGAACTGAAGTCAATTTGGGCTCCCCCTGGAAG  
GGGTTTCAATTCAGGTCTGTTGACTGAGACTGGCCGGCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT  
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTACCAAAGAATCGGGTTTAACCAGGGCTCTGTAAGACCA  
CTCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCCCTTCCTGTGCTGAGCTGTGACCCATTGA  
CCTGTGTCCCCAGAACCCAGTTTTTTGTTTGTGTTTGTGAGACGGAGTCTTGGTCTGTGCCCCAGGCTGGAGTGC  
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTA  
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTAGTAGAGACGGGGTTTACCATGTT  
GGCCAGGCTGGTCTCAAATCTTGATCTCAAGTGATCTGTCCGCCCCGGCTCCAGAGTGCTGGGTGGGATTA  
CAGGCGTGAGCCACCGCTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTTCCAGCAGGGGACTCGGGGGATATA  
CAGTGGCTGCACCAAATTGGAGGTGTGGGTTCCTCCAACAATTGCTTCTGCCCCTGTCTTCTGCCAGCTG  
GGTTTGGCCAGGATTTCTCCGTGTGGGGGCTACATGCGACCTCTCCCTCCTCCCTGACTTTAGAGGCTGGTGC  
TGTGTCGGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA  
AAAAAAAAAAAA

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**FIGURE 5575**

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH  
LGDNRTELPLTLYLCAGTQAESAQSNRLMMLRMHNLHGKPPPSSEGSDEEEEEDEEDEERKPQLELAMVPHYG  
GINRVVSVWLGEFPVAGVWSEKGQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEFALDWSPR  
VTGRLLTGDCQKNIHLPDGGSWHVDQRPFVGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM  
LTTATAHDGVDNVISWSRREPFLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVEWHPQDSGVFAASGAD  
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWHWPQCPGLLVSTALSGFTIFRTISV

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**FIGURE 5576**

CTAAAGGTCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTTCAGACAGCAGCCTCGGGGGGCACCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTTCCCCAGCCATGAATCTCTTCCGATTCTTGGGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCCGCTCGTGCGCCGAATTTTCAGGGAAGAGCCAGGTCTGTTTGCTGTGGTGTTCCTGCCCCGATATCTGGACCTCTTCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTACCACGGTCTGGTTGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTCAGAGTGGAGTTCCTGGTCTGTTCCACAGCCATTCTGGCGTTCCCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGGAGTCAGTGGCCATCTTGCCGCAGCTGTTTCATGGTGAGCAAGACCGCGGAGGCGGAGACCATCACCAGCCACTACTGTTTTGCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTTCGAGGGCTTCTTCGACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAGTCCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAGGCAGAGGAAGCGGCAGAGAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGCTGCTCCCCATCCCGCCTCTGCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGTTGTAGTTTTTTGCCTTTTAGACAAGAAAAAAAATCTTTCCACTCTTTAGTTTTTTGATTCTGATGACTCGTTTTTCTTTCTACTCTGTGGCCCAAATTTTATAAAGTGA

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**FIGURE 5577**

MNLFREFLDLSHLLAIILLLLKIWKSRSCAGISGKSQVLFVVFRTARYLDLFTNYISLYNTCMKVVIACSFRTV  
WLIYSKFATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTFSIYLESVAILPQLFMVSKTGEAETITSH  
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDDFYLYITKVLKGKKLSLPA

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**FIGURE 5578**

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTACAGGGCTAAAGAGGAGGACGAAGAA  
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCGCGCGCA  
GCCATGAGCCCCGCCCCCGCTGTTGCTTGAGAGAGGGGCGGGACCTGGAGAGAGGCTGCTCCGTGACCCACCAT  
GTCTCTCCTACCACGAGTTCCCTGGATACCCCCCTGCCTGGAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC  
TTCACCCACTGTAAAGGAGGAGGGTCCGAGCCGTGGCCCGGGGTCCGACCTGATGTCCAGGCACTGATGA  
GGCCAGCTCAGCCTGCAGCACAGACTGGGTCATCCCAGATCCCGAAGAGGAACCAGAGCGCAAGCGAAAGAAGGG  
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCTCCGGCTTCCACTACAACGT  
GCTCAGCTGCGAAGGCTGCAAGGGCTTCTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG  
GGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA  
GGCAGGGATGAGGGAGCAGTGCGTCTTTCTGAAGAACAGATCCGGAAGAAGAAGATTCCGAAACAGCAGCAGGA  
GTCACAGTCACAGTCGAGTCACCTGTGGGGCCGAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC  
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAATAAT  
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCAAAGTCACGCCCTG  
GCCCCCTGGGCGCAGACCCCACTCCCGAGATGCCCGCCAGCAACGCTTTGCCCACTTCACGGAGCTGGCCATCAT  
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCCTGGTTTCTGCAGCTGGGCGGGAGGACCAGATCGC  
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT  
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCACCGTGCAGGCCTGCAGGTGGAGTTTCATCAACCC  
CATCTTCGAGTTCTCGCGGGCCATGCGGCGGCTGGGCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA  
CATCTTCTCGGCCGACCGGCCAACGTGCAGGAGCCGGGCGCGGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC  
GCTGCTGTCTACACGCGCATCAAGAGGCCGAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG  
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCCCTTGGCGCTCCAGGACAAGAAGCTGCCGCCTCT  
GCTGTGCGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCCCTGACCACCTCCA  
GCAGATAGACGCCCGGACCCCTTCTCTTCTAGGGTGGAGGGGCGCTGGGCCGAGCCTGTAGACCTATCGGCT  
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG  
AAAGGGTTCAGGTCCCGACCACTGACCCTTCCCGGCTGCCTCCCTCCCGAGCTTACACCTCAAGCCCAGCACG  
CAGTGCACCTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCGGGAGACCAGGGCCTTCTCTT  
CCTCTGCTTTTATTTAATAAAAACTAAAAACAGAAA

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**FIGURE 5579**

MSSPTTSSLDTPLPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDPEEPPERKRKK  
GPAPKMLGHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK  
EAGMREQCVLSEEQIRKKKIRKQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQSGEGEGVQLTAAQEL  
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGLQLGREDQI  
ALLKASTIEIMLLETARRYNHETECITFLKDFTYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI  
NIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPP  
LLSEIWDVHE



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**FIGURE 5580**

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAACGCTGTTTGAAGCGGGATGGATGGCAAGCGGCGGCCAG  
GCCCAGGGCCCGGGGTGCCCCAAAGCGGGCCCGTGGGGGCCTCTGGGATGATGATGATGCACCTTGCCCATCCC  
AATTTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGC  
TGCAGTCAGTCCTGGAGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCA  
CACCACCAGCGCTGGACCCCCAGACAGAGCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCCAG  
CGCAGCCTGTGCCTGGGGGGCCCCCACCATCCCGCGGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG  
AGGGGTTCTCTGTCTGTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCAGCGCCCCCTGGTTTCGGGC  
CCGAGCACATGGGTGACCTGCAACGGGAGCTGAACCTGGCCATCAGCCGGGACAGTCGCGGGGGAGGGAGCTGA  
CTGGGCCGCGCGTGTGCTGGCTGTGGAACCTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGCCCCCTCCC  
CGTTCTTCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCGCGTCTCCTGGAACAGGGCATCCGTG  
TGGCAGGCCTGGGCACGCCAGCTTCGCGCCCTACGAGGCCAACGTGCACTTTGAGATCCGGTTTATGGTGGACA  
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC  
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG  
CGCCCTTTCGCGTGTCTCAGCTTCGATATCGAGTGCGCCGGCCGCAAAGGCATCTTCCCTGAGCCTGAGCGGGACC  
CTGTTCATCCAGATCTGCTCGCTGGGCCTGCGCTGGGGGGAGCCGGAGCCCTTCTACGCCTGGCGCTCACCCCTGC  
GGCCCTGTGCCCCCATCCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA  
CCTTCATCCGTATCATGGACCCCGACGTGATACCGGTTACACATCCAGAACTTCGACCTTCCGTACCTCATCT  
CTCGGGCCAGACCCCTCAAGGTACAAACATTCCCTTTCTGGCCCGTGTGGCCGGCCTTTGCTCCAACATCCGGG  
ACTCTTCATTCAGTCCAAGCAGACGGGCCGGCGGGACACCAAGGTTGTGAGCATGGTGGGCCGCGTGCAGATGG  
ACATGCTGCAGGTGCTGCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCTTG  
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATACCGACCTGCAGAATGGGAACGACCAGACCCGCCCGCC  
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGGCTGCTGGAGCGGCTCATGGTGTGGTGAACGCCG  
TGGAGATGGCGAGGGTCACTGGCGTGCCCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC  
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGCTGATGCCCCTGGTGAAGTCAGAGGGCGCGGAGGACTACCGG  
GAGCCACTGTTCATCGAGCCCTCAAAGGTTACTACGACGTCCCCATCGCCACCCCTGGACTTCTCTCGCTGTACC  
CGTCCATCATGATGGCCCAACCTGTGTTACACCACGCTCCTTCGGCCCGGACTGCACAGAACTGGGCCTGA  
CTGAGGATCAGTTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCAGGAAGGGGCTGCTGCCCC  
AGATCCTGGAGAACCTGCTCAGTGCCCGGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC  
GCCAGGTCCTGGATGGACGGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG  
TGGGCAAGTTGCCGTGCCTGGAGATCTCACAGAGCGTCACGGGGTTTCGGACGTGAGATGATCGAGAAAACCAAGC  
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT  
CCGTATGTGCCGATTCCGGCTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCCGCGGACTGGGTGT  
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAAGGTCTACTTCCCATACCTGCTTATCAGCAAGAAGC  
GCTACGCGGGCCTGCTCTTCTCTCTCCGGCCCGACGCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC  
GCAGGGACAACCTGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG  
AGGGCGCGGTGGCTCACGCACAGGACGTATCTCGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA  
TCACCAAGGAGCTGACCCGCGCGGCTCCGACTATGCCGGCAAGCAGGCCACCGTGGAGCTGGCCGAGAGGATGA  
GGAAGCGGGACCCCGGAGTGCGCCAGCCTGGGCGACCGCTCCCTACGTGATCATCAGTGCCGCCAAGGGTG  
TGGCCGCTACATGAAGTCGGAGGACCCGCTGTTCTGTGCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC  
TGGAGCAGCAGCTGGCCAAGCCCCCTCTGCGCATCTTCGAGCCATCCTGGGCGAGGGCCGTGCCGAGGCTGTGC  
TACTGCGGGGGGACCACACGCGCTGCAAGACGGTGTCTACGGGCAAGGTGGGCGGCCTCTGGCCTTCGCCAAAC  
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGCTCAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG  
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT  
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTATCTGCACCAGCCGGGACTGCCCCATCTTACATGCGCA  
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCTGCGGCGCTTCGGACCCCTGGACCTGAGGCTGGT  
GACCTTGCAAGCATCCCATGGGGCGGGGCGGGACAGGGAGAATTAATAAAGTTCTGGACTTTTGCT

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**FIGURE 5581**

MDGKRRPGPGVPPKRARGGLWDDDDAPWPSQFEEDIALMEEMEAHRLQEQQEEEELQSVLEGVADGQVPPSAI  
DPRWLRPTPPALDPQTEPLIFQQLEIDHYVGPAQVPVGGPPPSRGSVPLRAFGVTDEGFSVCCHIHGFAPYFYT  
PAPPFGPEHMGDLQRELNLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGSPFRLRITVALPRLVAPARR  
LLEQGGIRVAGLGTSPFAPYEANVDFEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADVLSDVVSHPP  
EGPWQRIAPLRVLSFDIECAGRKGFPEPERDPVIQICSLGLRWGEPEFFRLALTLRPCAPILGAKVQSYEKEE  
DLLQAWSTFIRIMDPDVITGYNIQNFDLPYLISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRRTKVVS  
MVGRVQMDMLQVLLREYKLRSHTLNAVSFHFLGEQKEDVQHSIITDLQNGNDQTRRLAVYCLKDAYLPLRLER  
LMVLVNAVEMARVTGVPLSYLLSRGQVKVVSQLLRQAMHEGLLMPVVKSEGGEDYTGATVIEPLKGYDVP IAT  
LDFSSLYPSIMMAHNLCTTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKELA  
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLGISQSVTGFRQMIKTKQLVESKYTVENGYSTSAK  
VVYGDTSVMCRFGVSSVAEAMALGREAADWVSGHFPSPIRLEFEKVYFPYLLISKKRYAGLLFSSRPDAHDRMD  
CKGLEAVRRDNCPLVANLVTASLRRLIDRDPEGAVAHAQDVISDLLCNRIDISQLVITKELTRAADYAGKQAH  
VELAERMKRDPGSAPSLGDRVPYVISAAGVAAYMKSEDPLFVLEHSLPIDTQYYLEQQAKPLLRIFEPILG  
EGRAEAVLLRGDHTRCTVLTGKVGGLLAFARRNCCIGCRTVLSHQAVCEFCQPRESELYQKEVSHLNALEER  
FSRLWTQCQRCQGS LHEDVICTSRDCP IFYMRKKVRKDLEDQEQLLRRFGPPGPEAW

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**FIGURE 5582**

GCCTCCTTCCGTCTGTAACCTACCTAAAGACCCAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT  
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGCCCGGCAGCCGCTGCCCCGGGCTCGACTGGGCGCTGCTACCG  
CCATCAGCAAGAGCAGGAGCAGCCGGGTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA  
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCAGCCGGGAGGAACAGGCCGCATCCTGACGCCCCGTGCGCCTGCGC  
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATGGGGCCGCCCTTTG  
GCCTGATCTCCAGGAGCCGCCCTCCAGGGACGTATCACAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA  
GCCCCTCCGCATCATGACGTCACAGTGGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT  
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA  
ACCAGGTGGGATGGCAGCCTCTCCACGGGCCGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTGGA  
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC  
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC  
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT  
GTTCCCTTGAAGTTCGTCCAGCTCTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG  
CCGCACCTTCTACTTGAGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTTCGGCCAGTGGGTGCGGCTGCT  
CTACCGCCTGCGCTTCCTCTCTGCTTCTGCTGTGCCCTTACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG  
ACTTGACCCCAAGACCTCTGAACCTCTGGGACTCTGAGTCTTCCAGCATCCTTCAAGGTCACCGAATGACCAGAG  
ATCAAAGTACCTTGCCCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAAGAACCAA

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**FIGURE 5583**

MGPFLWPDLQEPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLRPLPSDGDAMRRDRGPKPALG  
GAGEVEPGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTSDLWPQVTRLGEVANEVTMG  
VAASSPALELPDLLLLAGPAKENGHLQLFGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFYQLRAPLKTRDREFG  
QWVRLLYRLRFLSASAVPFTQE

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**FIGURE 5584**

GCCGTCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT  
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCGGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGGAGGGGGCTGG  
GGCGGAAGGTCGAGAGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTTGAGATCGATGACAG  
TGCCAACTTCCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTACAGCGGCAGCT  
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCG  
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC  
GCACCTGTGCGACCAGCTGACCTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC  
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC  
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCCAGAAGGCCAAGAAC  
CCCCAGGAGCAGAAGTCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCTGTTCCTCATGATGTCA  
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC  
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC  
CAAGAAGGGTTTGTGGTCCCTCCTTTCCCCCGTCCCACGAGGCCACCTGGGCCAGCCCCCTTGCTCTGCGCTT  
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCCATGG  
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCCATGGAGTAGAGCCCGAGATCCTGGCCACTATGCCAGTTCTGA  
CCTCGCATCCCCCTACCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCTTTGTTC  
CAGGTGGTCTCACCTCCTGTCCCTGGCTGGGCTAGGTGGTCCGTGCCAGGCTCCTGCAGCGCCCCCTCACTTT  
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCTTGAGGGTACCCTGGGTCCCTCATCAGGGGCAGAGG  
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCGACGCCTAGTGCAGCCCTGGGGTTCGTGGTTTG  
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA  
AGGAAAAGGTTTAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC  
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC  
ACCCTCCCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTGAAGGCTACAGCTTC  
CAGCAGCCAAAAGCAACTGTTGTTTGGCAAGACGGTCTGATGTACAAGCTTGATTGAAATTCAGTCTCACTT  
GATACGTTATTCAGAAACCCAAGGAATGGCTGTCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTGTGT  
GGCAGTTTATTAACCTGTCCCCAGATCGACACGC

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**FIGURE 5585**

MAAASAGATRLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSL  
WNQQDGTLSLSQRQLSEEERGRLRDVAALNGLYRVRIIPRRPGALDGLEAGGYVSSFVPACSLVESHLS  
DQTLHV  
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQSFFAK  
YWMIIPVVLFLMMSGAPDTGGQGWGWGWGWGW

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**FIGURE 5586**

ATGGGGGTGGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCACACA  
CCTGTACCTCCACGGTTGCCTTGCTGTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA  
GTCTCTGAAGCTGTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCACCCACAGCCCC  
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCGCGC  
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG  
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG  
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG  
TCCAGAAACGGGTCTTGCACCGCCCCCTGCCACCCAGAGACATGGATGGAGGGTGTGTTCTGTCAGTCCACG  
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCTGTGGCCACGCTGTTG  
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC  
GGGACCGGCAGCCCTGTGAGTCACTTGACTTACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT  
CACCTCCAGGGCTGCCGGGGAGTCAGCAGGAGCCTGGGGTGGCGAGAGGCTCCGGGAGCTGCAGGCAGGAGCG  
ATCAGTGATGACCGGGACCTCCTCCTCTGTTACTATTATTGATGTTATTATTATTAATAGAAATAGCAACCGAG  
TGCCTGCTTTATCAATACCAGCATTTCCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC  
GCCAACGATAACGATAACAATGAGAATGACGAGCTGCTGAGCACCCCTGAACACTGGGACCTCATCTCCTCTCCC  
TCACCCTCTGAAGTGCTTTTCATCATCCTCCTCGTGGTGATCCGACGGACACGTTCAAGCACCTGCGGCACCTG  
GAGATTCTGCAGCTGAGCAAGAACCTGGTGGCAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCAGCCTCAAC  
ACGCTGGAGCTTTTTGACAACCGGCTGACCACGGTGCCACGCAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG  
CTCTGGCTGCGGAACAACCCATCGAGAGCATCCCTCCTACGCCCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG  
GACCTGGGCGAGCTCAAGCGGCTGGAATACATCTCGGAGGGCGCCTTCGAGGGGCTGGTCAACCTGCGCTACCTC  
AACCTGGGCATGTGCAACCTCAAGGACATCCCAACCTGACGGCCCTGGTGCGCTGGAGGAGCTGGAGCTGTGCG  
GGCAACCGGCTGGACCTGATCCGCCCCGGGCTCCTTCCAGGGTCTCACCAGCCTGCGCAAGCTGTGGCTCATGCAC  
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTGGCTGGAGGAGCTCAACCTGTCCCAAC  
AACCTGATGTGCTGCCCCACGACCTCTTACGCCCTTGACCGCCTCGAGCGCGTGACCTCAACCACAACCCC  
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCAGCAACACGACGTGCTGC  
GCCCCGTGTATGCGCCCCGCCGCCCTCAAGGGGCGCTACATTGGGGAGCTGGACCAGTCGCATTTACCTGCTAT  
GCGCCCGTGTATGCTGGAGCCGCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAATGCCGCACG  
GGACCTCCATGACCTCCGTCAACTGGCTGACGCCCAACGGCACCCCTCATGACCCACGGCTCCTACCGCGTGCGC  
ATCTCCGTCTGTGATGACGGCACGCTTAACCTTACCAACGTACCGTGCAGGACACGGGCCAGTACACTGGTGGT  
GTGGAGGGGGCAGTGGCGGCTACACCTACTTCAACACGGTGACCGTGGAGACCCCTGGAGACGCAGCCCCGAGAG  
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCCACGACAGACGGTGTCTGGGGTGGGGGCGG  
CCTGGGGACGCGGCCCGGCCCTGCCTCGTCTTCTACCACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG  
GCGTTACGGTGCCCATCACGGATGTGACGGAGAAGCCCTCAAGGACCTGGACGACGTATGAAGACCACAAA  
ATCATCATCGGCTGCTTCTGGCCATCACGTTTATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG  
CAGCACCAGCTCCACAAGCACCACGGGCCCACGCGCACCGTGGAGATCATCAACGTGGAGGACGAGCTGCCCGCC  
GCCTCGGCCGTGTCCGTGGCCGCCGCGGCCGCGTGGCCAGTGGGGTGGTGTGGGCGGGACAGCCACCTGGCC  
CTGCCCCCCTGGAGCGAGACCACCTCAACCACCACTACGTGGCTGCCGCCCTTCAAGGCGCACTACAGCAGC  
AACCCAGCGCGGGGGGCTGCGGGGGCAAAGGCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG  
AGCGGCTCCAAGGAGAAGTGCAAGAGACGCAGATCTGA

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**FIGURE 5587**

MAAAGLEAGVGAVGSHRPGCVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPRLPVPPAAA  
RNQASRVICTRRDLAEVPASIPVNTRYLNQENGIQGGRTWLLPSDHPESQIQGRKGTSSQGSSPFLVAVGQGP  
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGSLRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL  
PGTGSPAESLDFTEPWSFVSEMTCD AHLQGCGRGSQQEPGVPQRLRELQAGAISDDRDL LLLLLLLLLMLLLIEIAT  
ECILYQSPAFPREVISCVWAWYKFLNANDNDNNENDDVLSTPEHWDLISSPSPSEVLFIILLVVIRTDTFKHLRH  
LEILQLSKNLVRKIEVGAFNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRRELWLRNNPIESIPSYAFNRVPSLRR  
LDLGELKRLEYISEAAFEGLVNLRYLNLGMCNLDIPNLTALVRLEELELSGNRLDLIRPGSFQGLTSLRKLWLM  
HAQVATIERNAFDDLSLEELNLSHNNLMSLPHDLFTPLHLRLERVHLNHNPNWHCNCVDVLWLSWWLKETVPSNTTC  
CARCHAPAGLKGRIYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAAELKCRGTGTSMTSVNWLTPNGTLMTHGSYRV  
RISVLHDGTLNFTNVTVDGTGQYTGVGVGSGGYTYFTTIVTETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG  
RPGDAAGPASSSTTAPAPRSSRPTKAFVPTIDVTENALKDLDDVMKTTKIIIGCFVAITFMAAVMLVAFYKLR  
KQHQLHKHHGPTRTVEIINVEDELPAASAVSVAAAAAVASGGGVGGDSHLALPALERDHLNHHHYVAAAFKAHYS  
SNPSGGGCGGKGPPGLNSIHEPLLFKSGSKENVQETQI



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**FIGURE 5588**

CACTCATTAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTTCATCCCTCCAGACACTCTGCTGTTTCCTGCC  
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT  
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCTGCAGGTGTA  
CAGCCGGGGCCCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT  
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCCACCCGGCTGCTGATGGCCT  
GGTGGCAGCTGGGAGTCTCCCGGCACTTCGAGGGCACTGAGCCACCCTTCAGCCCCAGCCACCATGGACAGG  
GGTATCCAGCTTCTCCTCAACCTCGTCTCTGCCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG  
TCCTGTACCAGCACTAGCTGGTCAAGGGCATGACAGTGCTGGAGGCCGTCTTGGAGATCCAGGCCATCACTGGCA  
GCAGGCTGCTCTCCATGGTGCCAGGGCCCCGAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGACACAAGGA  
CTTGGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG  
AGCCACCCCGCTTCCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT  
GGCTCTCAAGGACAGACACCGCTGGCCTGGTGTCTCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC  
TGGTTTGAGCTGCATTAGGAAGTGCGGGACATGGTAGGGGAGGCCAAAAAGCCTTGGGCACTACCTCCCTGTGG  
AGCTGTTTCGGTGTCCGTGAGCTAGCCACACCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC  
CCCAACCTCCCCCTGTGGGTGTCACTGGCCAGATGTATGAGGGAAGCAGGCCTTGTGAGTGGACACTGACCATGA  
GTCCCTGGGGGGAGTGATCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGT  
CCATGGGTGCCCCACCCCTCCACCACATGGGGCCCCAAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTTGA  
CATAAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5589**

MTVLEAVLEIQAITGSRLLSMVPGPAPPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ  
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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**FIGURE 5590**

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTACCAATGTGGGTCCCGGTTGTCTTCCTCACCTGTG  
CGTGACGTGGATTGGTGCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCAGAGAAGCATTCCCA  
ACCCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTGCGGCGGTGTTCTGGTGCACCCCCAGTGGGTCTT  
CACAGCTGCCCCACTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTGCGGCACAGCCTGTTTCATCCTGAAGACAC  
AGGCCAGGTATTTAGGTGAGCCACAGCTTCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTTCCT  
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGCTGCTCCGCTGTGAGAGCCTGCCGAGCTCACGGATGCTGT  
GAAGGTCATGGACCTGCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA  
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA  
AGTTCACCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTGCTCGGG  
TGATTCTGGGGGCCCACTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT  
GCCCGAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC  
CTGAGCACCCCTATCAACCCCTATTGTAGTAACTTGGAACTTGGAAATGACCAGGCCAAGACTCAAGCCTCC  
CCAGTTCTACTGACCTTGTCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA  
GACCAGAGTGTCTTAAATGGTGTAAATTTGTCTCTCTGTGCTGCTGGGAATACTGGCCATGCCTGGAGACAT  
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG  
GTGGGATCCACACTGAGAGAGTGGAGAGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG  
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCTGAGGCACTGGGAAG  
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT  
GGACCCCTTGGAAGCTGATTCACTATGGGGGGAGGTGTATTGAAGTCCTCCAGACAACCCCTCAGATTTGATGATT  
TCCTAGTAGAACTCACAGAAATAAGAGCTGTTATACTGTG

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**FIGURE 5591**

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCI RNKSVILL  
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGT  
TCYASGWGSIEPEEFLLTPKKLQCVDLHVISNDVCAQVHPQKVKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG  
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

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**FIGURE 5592**

GGCGGACAAAACCCGATTGTTCCCTGGGCCCTTTCCCATCGCGCCTGGGCCTGCTCCCCAGCCCGGGGCAGGGGC  
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCGGCTGGCTGGCTCGCTCTCTCCTGGGGACACAGAGG  
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTTCCTTCCCCGACTCAAGAATCCCCGGAGCCCCGGAG  
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA  
GAATAAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCTACCAAGCTGCCCTCTACACCTCGGGCCA  
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCCACTGCAAAAAACCGAATCTTCA  
GGTCTTCCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCAGGAGCAGAGTTCTGTTGTCCGGCTGTGAT  
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCACGCCCAGCCAAACTCTC  
TGAACATCCAGCCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG  
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA  
GCATGCCCTACCTGGCCAGATCACCCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTGCCA  
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTGATGGGGTAACATCCCCCTGTGG  
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACTGGATCCAAAAAACCATTCAGGCCAA  
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCAGAACGTCTCTACCTAGAC  
CTTGCCCTCCCCCTCCTCTCCTGCCCAGCTCTGACCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCTGATTCT  
CCCTGGTTTTTACCCAGCTCCATCCTTGCATCACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCCCTCGGTCTT  
ACCCCCACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTTCCACACGTTTGATT  
TCTTCCTGCAGAGGCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTCCGGTGTCCCTTGGGATGTA  
CCTTTCTTCACTGCAGATTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT  
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACTCAATAAAGAATGA  
ATTTT

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**FIGURE 5593**

CACCCTGTAAGTGGCTGCGGCGGGAAGATGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC  
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC  
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTCATCGCCGTCAGCTGT  
GGGCCTGCACAGTGCCAGGAGACGATTCTGACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG  
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG  
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT  
CTTGACTGGCCACAGGGCACATTGCGCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC  
GATGGGGGCTGGAGACCCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC  
TACGCCACGCTGCCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG  
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC  
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTGAGCCCCCTCCAGAGATGGCAATAAACTGAC  
TCTCAACATCAAAAAAAAAAAAAAAAAA

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**FIGURE 5594**

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI  
RTALAMGADRGIHVEVPPAEERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA  
SQVTLEGDKLKVEREIDGGLETLRKLPAVVTADLRNLPYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI  
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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**FIGURE 5595**

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCACTACCGCATCAGCCTTGCCCCACCCTTT  
CAGGGTTCCTAAATCTGGCCAGTCTTTCTGCCCTTTCCTTGCGGTCTTCCCTTGTCATACCCGTTTCTTG  
ATCGCTACGGACCTTAAATACCAGCAACAGCCCTTCGCCCCAAGACCATGTAGACAACCCACTCAGGTCGTG  
TTCCTGCTTAAACCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCTCACTCGGGAGGAGGAGCA  
CTGCAGACAGACAGTGGGAGAAAGGTGAAAGAGTTGGAGCCGACGCCGACAGAGCTACGTGGTGTGGGACTGAA  
AGAGAGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG  
GGGGTGTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA  
GAAGCCCAGAAGAGGAAGAAGAGGAAAGAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTCAGG  
GATGTAGCCATAGAATTCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG  
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCTTAAATGTATGACCAAGGAATTACCACCAATA  
GGGAACAGTAATACAGGAGAAAAATGCCAACAGTGACGCTGGAAAGACATGAATGTTATGATGTGAAAAATTTT  
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAATAAATTATAAAGAA  
GTGCCAATGACCTATAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAATGT  
ATTGAAATCAGCTTACATTAAGCTTTTCACTCAGCTCTGACTGAACTGCAGAAATTTCAAAGTGAAGGGAAATTT  
TATGAGTGAACCAATCTGAGAAGACAGTTAATAACAGTTCCTAGTTTCACCACTTCAAAGAATTTCTCTAGT  
GTCCAAACCAACATTTCTAAAAATATGAGAATGAGTTTTTGCAGCTGTCTATTACCCACCAACTTGAGAAAACA  
CACATTAGGGAAAAACCTTATATGTGTAAAGGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT  
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTCATCGGGGCTCACTACTA  
ACTATACATCAGATAGTCCATACAAGGGGGAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT  
TCAGATCTTGTAATCACCGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCCTTT  
AGTCAAAGTTATAACCTTGCAATACATCAGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG  
AAAACCTTCAAACAAGGCTCATGCCTCACTACACATCAGATAATCCATACAGGAGAGAAACCATATCAATGTGAT  
ATATGTGGCAAGGTCTTCAGGCAGAATTTCTAATCTTGTAATCACCAGAGAATCCCACTGGAGAGAAACCATAC  
AAATGCAACATATGTGGAAAGTCCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTTATAGTGGAAAC  
AAACCTTACAAATGTGATGAGTGTGGCAAAACCTTTAAACGGAGCTCCAGCCTCACTACACATCAGATAATCCAT  
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTTCAAACTTGCAAGGCACCAG  
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAAGCTTCACATCTTGTG  
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA  
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAAGGTCTTTAGT  
GAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGTGGCAAG  
GTCTTCAATTACAGTGGAAACCTTTCAATTATAGAGAATACATACGGGAGAGAAACCTTTCCAAATGTAATGAA  
TGTGGCACAGTCTTCAGGAACCTACTCATGCCTAGCACGTATCTAAGAATTCATACTGGGCAGAAACCTTACAAA  
TGTAATGTGTGTGGCAAGGTCTTCAATGACAGTGGAAACCTTTCAAATCATAAGAGAATTCATACTGGAGAGAAG  
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTAGTTACTACTCATGCCTAGCACGTATCGGAAATTCATACC  
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTTACTCAGCGTTCAAGCCTCACTAAACATCTGATA  
ATTCATACTGGAGAGAAACCTTACAATTGTAATGAGTTTGGAGGGGCATTTATCCAAAGTTCAAACCTTGCAAGA  
TATCAGAGAAATCCTACTGGGAGAGAAACACACAAATGTAGCCATTGTGGTAGAACTTTTAGTCATATAACAGGC  
CTGACGTACCATCAGAGAAGGCATACTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC  
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTCT  
TTTCGTATCAATCAACACTAGCACGTATCGGAGTATTCATACTGGAGAGAAACCTTACGTGTGTAATGAGTGT  
GGCAAAGCCTTTAGAGTGCCTTCAATCTGGTTAATCATCAGAAAATGCATACTGGGGACAAACCTTACAAATGT  
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAGCCA  
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCCCTCAACAAACACCAATGATTCAATCTGGA  
GAAAAACCTTATAAATGTAATGAGTGTGGCAATCTTTCAATAGTCGCTCAGGCCTCACTAAACATCAGACAAAA  
CATACTGCAGAGAGTCTTAAACAAAATTCATGTGGAAAAGCCTTTAGATGTTCTCTAACTTCTGGTCTTTAC  
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAATTTAA



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**FIGURE 5596**

MPYKCIECGQVFNSTSNLARHRRRIHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV  
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK  
SFISRSGLTQKHQTKHTAESLTKTFNVEKPLDVLLTSGFK

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**FIGURE 5597**

AGCACAGCGCTGGCCGCAGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGCGGCCGACGGCGACGACTCGCTG  
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTGAGCTTCGCCTCAACAGCATCAAGAAGCTG  
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCCTTACAGATACCATCTAT  
GATGAAGATGAGGTCTCTGTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAGGCCAGAGTAC  
GTGCACTGCTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGGGACAAGGCAGTGGAG  
TCCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG  
GCGGGCGGCGACTGGTTACCTCCCGCACCTCGGCCCTGCGGCCTTCTCTCCGTCTGCTACCCCCGAGTGTCCAGT  
GCTGTGAAGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGGCCGCA  
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCATGTTCTCC  
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGCCTGAACATCGCCAGCTTCTG  
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGCGTCCGC  
TACATGGTGGCTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCTGAGATCACCAGACAGACCTGGTCCCT  
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGACGCTCCACAAAGGTCAAAGAGTTCTGT  
GAAAACCTCTCAGCTGACTGTCGGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC  
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAGACAAC  
ACCATCGAGCACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC  
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATGTGGAG  
CTGGCTGAGGACGCCAAGTGGCGGGTGGGCTGGCCATCATTGAGTACATGCCCCCTCTGGCTGGACAGCTGGGA  
GTGGAGTTCTTTGATGAGAACTTAACCTCTTGTGCATGGCCTGGCTGTGGATCATGTATATGCCATCCGCGAG  
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCCATGCCACAATCATCCCCAAG  
GTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG  
GTCTGTGGGCAGGACATCACCACCAAGCACATGTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAAT  
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGGCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC  
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGACTGTT  
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACACTGGCCTCTGGTGTCCACCCTCCAACCCCCACAAGTCCCT  
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCCAGGCCCTTCCCCAGCA  
CGGTTCTCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCAACGGGCTAGGGGAGCACGGGGTTGG  
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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**FIGURE 5598**

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG  
AAGAATGTGACAAAGCTTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT  
ACAAGTGTAAATGAATGCAGCAGGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG  
AGAAACCTTATAAGTGTAAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC  
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAATCGAACCTTGAAAGACATA  
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG  
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAAT  
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTTACAAGTGTAAATGTGGCAAGACCTTTA  
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAAATGAGTGTGGCA  
AAGCCTTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAACTTTACAAATGTAAATG  
ATTGTCACCAAGTCTTTAGTAATGCTACAACCATGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA  
AGTGTAAATAGATGTGGCAAATTTTTTCAGACATCGTTCATACCTTGCAGTTTCATTGGCGAACTCATAGTGGAGAGA  
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAAATTCATA  
CTGGAGAGAAACCTTACAGGTGTAAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA  
GACTTCATACTGGAGAGAAACCTTACAAGTGTAAATGAGTGTGGCAAGACCTTCGGTCGAAATTCAGCCCTTATAA  
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGAGTGTGGCAAGGCCTTCAGTCAGAAGTCAT  
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTCAGTC  
GCAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAGGTTTGTGACAAAG  
CTTTTGGGCGTGATTACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGTAAATGAAT  
GTGGCAAGAACCTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT  
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACTGGAGAGAAAC  
CTTACAAGTGTAGTGAATGTGGCAAGGTTTTTAATAGAAAAGCAAACCTTTACAGTCATCATAGACTTCATACTG  
GAGAGAAACCTTACAAGTGTAAATGTGGTAAGGTTTTTAATCAACAAGCACACCTTGCAATGTCATCATAGAA  
TTCATACTGGAGAGAAACCTTACAAGTGTAAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAATTC  
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGTAAATGTGGCAAGGTTTTTAATCGAAAAGCAAAC  
TTGCACGTCATCATAGAAATTCATACTGGAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTACAGTTGTA  
AATCAAGTCTTGAAAGACAGGAGAAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTGTGACAAGAACT  
TGGGCGTGATTACACCTGGCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTACTGAGTGTGG  
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAACTTTACTAATGTAA  
TGATTATCACAAGTCTTCAGTAACACTACAACGTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAAA  
GTGTAATAAATGTGGCAAATTTTTTCAGACATTGTTTCATACCTTGCAGTTTCATCGGTGAACTCATGCTGGAGAGAA  
ACCTTACAAATGTGATGATTGTGGCAAGGTCTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG  
GAGACAAACTTCACAAGTATGATGATTGCAGCAAAGCCTTTACTTCAGTTCACACCTAATTAGACATCAGAGAA  
TCCATACTGGACAGAAATCTTACAATGTGATGAGTGTGGCAAGGTCTTCAGTCTGAGATCACCCCTTAAGGAAC  
ATCAGAAAATTCATTTTTGAGATGATTGTTCCAAATGCAATGAGTATAGCAAACCATCAAGCATTAAATGGCATT  
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAAATGACATTAAAGTGTT  
TATGTTAAGAAGATTGGGCCAGGCGGGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACCAATAG  
ATCACTTGAGGTGAGGAGTTTGAGACCAGACTGGCCAAACAGACATGAGTCACTTTCCCAACCTGTATTTTGTTT  
CTTTAATAAAAACCTGTTACGGGTT

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**FIGURE 5599**

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYKC  
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCRRLHTGEKPYQCNECGKAFRGQSALIYHQAI  
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTSHGEKPYKCEECDEAFSFK  
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALIIHKAIHTGEKPYKC  
ECGKAFSQKSSLTCHRLRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYCKVCDKAFGGRDSHLAQHTRI  
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKSECGKVFNRKA  
NLSRHHRLHTGEKPYKCNKCGKVFNQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKTIIHTGEKPYKCNE  
CGKVFNRKAKLARHHRIHTGKKH

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**FIGURE 5600**

AGAAACAGTGGTGCGCGGAGAGGAGAGGCCCTCGGGATGCTCTTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG  
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA  
CACAGCTGGATCTTTCCGGGGATTCACTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATT  
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG  
AATACCGCGTCATCGTGGATGCCAACCACTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA  
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCCTGGTCCCCAATGCACTGGATTACATCCGCACGG  
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCATGCCACCA  
TCATGGTTCGTACGCTCACCCTCCACCACCCAGGGGCGAGCAGCTGTGCGAGGAGGAGCTGGAGCGGCTGGAGG  
AGGCCGTGCGACATGGCGCTGGAGCTGAACGCCCTCCAAGCACCAGCATCTACGAGTATGTGGAGTCCCGGATGTCTCT  
TCATCGCACCCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCCTGA  
CCAACCTCTCCAAGGTGCCCGCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTGCGGCTTCTCGT  
CTACCTCAGTGTGCCCCACACGGCTACATCTACCACAGTGACATCGTGCAGTCCCTGCCACCGGATCTGCGGC  
GGAAAGCGGCCCCGGCTGGTGGCCGCCAAGTGCACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG  
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCCGCTGTGAAGC  
AGGTGAAGCCGCTGCCTGCGCCCCCTGGATGGACAGCGGAAGAAGCGAGGCGCCGCGCAGGTACCGCAAGATGAAGG  
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCCTATGAGCTTCGGAGAGATCGAGGAGGACGCTACC  
AGGAGGACCTGGGATTGAGCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG  
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTTCGTATATGGCGGGAAGT  
CCACCATCCGCGACCGCTCCTCGGGCACGGCTCCAGCGTGGCTTACCCCACTCCAGGGCCTGGAGATTGTGA  
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAGAAGTATTTCTCCAGCATGGCTGAGTTCTCTCAAGG  
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACCTGAATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC  
ACAGAGGTCCAGTCTTCTGAAGGGCTAGGATCGGGTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG  
CTGGGACTGCCCAGGGAGGAGGCCTTGGAAGAGTCCGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCAGTAT  
GGGCTAGAGCAGGTCTTCATCATGCCTTGTCTTTTTTAACTGAGAAAGGAGATTTTTTGAAAAGAGTACAATTAA  
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5601**

MSLADELLADLEEAEEEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTIAKLWDSKMFAEIMMKIEEYISKQA  
KASEVMGPFVEAAPEYRVIVDANNLTVEIENELNIHKFIRDKYSKRFPELESIVPNALDYIRTVKELGNSLDKCK  
NNENLQQILT NATIMVSVTASTTQGQQLSEEELERLEEACDMALELNASKHRIY EYVESRMSFIAPNLSIIIGA  
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT  
LAARVDSFHSTEGKVG YELKDEIERKFDKWQEP PPVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIRKQA  
NRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVRQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS  
SVAFTPLQGLEIVNPQAAEKKVAEANQKYFSSMAEFLKVKGESGLMST

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**FIGURE 5602**

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCG  
AAGGAACCCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCT  
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCGAGCCCGAAGGCCCGCCCTTACGTA CTGGAG  
CTCGGATCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT  
CCCTGCCCCCGGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGGGGCGCCAGAAGGA  
GCAGGCGGCGGGGGCGCGCTGGGCGGGGAGGCGTGGCCGAGCTGCGGCGCAAGCGGGCTGGGACTGCTCG  
GCCGCTCCTGCCCCGGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTC  
CATCCCCATCGGCTTCTCTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGAGCAGCCGCTGTGGGCTGGG  
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCTCGGGACCTGGGCCCTCATTCA  
GGCCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG  
CCTCCTGGGCTGCCCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT  
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGCCACCT  
GGGGTGTGCCCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG  
CCCGTTCTTCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCCGGGCGAGTGCCAGCCTGCGGCC  
CCTGCTGCGCCGCGCTGGCCGGCCCCGCTCTTGGCCTGCTGTCTCTCTCTCCTCTCACCTCTTCCCGCTGGA  
GGCCGTGCGCGAGGACGCTTCTACGCCCGCCCGCTGCCGCCCGCCTCTTCTACATGATCCCCGTCTTCTTCGC  
CTTCCGCTATGCGCTTCTACGTGGCCTGGATTGCCGCCGAGTGGGCTGCATTGCCGCCGGCTTTGGGGCTACCC  
CGTGGCCGCCAAAGCCCGGGCGGAGGCGGCCACCCCTCCAATGCCACCCCCAGCAGTCCGGAGAAGGCGGC  
TTCCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGTACAGCACAGATTTCTGCGTGCGGGTGCGCGA  
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC  
CTATGCTCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG  
CTTCTGACCATCCCGCTGTGCTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGGGGGCTGAGCCAGG  
GGGCCAGAAGGCCTGGGACTGGGTGCAGTGGTTCCTGAAGATGCGCGCCTATGACTACATGTGATGGGCTTCGT  
GCTGCTCTCCTTGGCCGACACCCTTCGGTACTGGGCCTCCATCTACTTCTGTATCCACTTCCTGGCCCTGGCAGC  
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGGACGCCCCAGCCGGCGGAAGGCAGCATCCAGCCACCCAGCCTTGC  
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTCACGACGCTCCCTCTGCCAGCTGGTCCCGGGAATTCTGTGAACCA  
GGCTGCTGTCTCCTCCCCAGAAAGATCCTTACCTTGGAGAGGGTCTGGAGAGAATTTCTCTTCCCCAGCTAA  
ATACCCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCTCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC  
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGAGCACTGCACTT  
CCCCAAAACGGAAGGGGCCCTGGGCGAGTGGGTTTGGGCAAATTCCTTTCTTGCATCCACAATGTGGGGTGC  
GAGCTTGGGGGCGAGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTGCTCCACTTTTAGCTCATCGCACCA  
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCATTTCACAAAGGGGAACTGAGGTGCGGGTGCGGGGCGCTG  
GGGACGGCCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT  
GGCCTATGACAGGTACCGTGTGTAAATCTTCCCAATAAAGTGTGCACAAAG

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**FIGURE 5603**

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTCGCAAACTTATGT  
GACCCCGCGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA  
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCGGGAACCTGCTGACGCTTGA  
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA  
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT  
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA  
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTGCGCTCTCC  
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA  
CGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG  
GATCAGCGCTTTA



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**FIGURE 5604**

MPVARSWVCRKTYVTPRRPF EKSR LDQELKLIGEYGLRNKREVVRVKFTLAKIRKAAARELLTLDEKDP RRLFEGN  
ALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLQTQVFKLGLAKSIHHARVLIRQRHIRVRKQV VNI PSFIVR  
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKGQGGAGAGDDEED

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**FIGURE 5605**

CCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCCC  
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCGCCCTTCACGTACTCGGAGCTCGGAT  
CCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC  
CGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCAGAAAGGAGCAGGCG  
GCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT  
CCTGCCCGGCGAGCAGCTCAGGTCTTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGT  
TCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTAGGCCAGCCCT  
G

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**FIGURE 5606**

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPD RGFFPGLICAARRAPRRSRRRGAL  
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPAHPVHLWPPHFAFSGHHPDLGPHSGPA

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**FIGURE 5607**

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAACCTTATGTGACCCCG  
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT  
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGATGAGAAG  
GACCCACGGCGTCTGTTCTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG  
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG  
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG  
GTGAACATCCCGTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA  
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

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**FIGURE 5608**

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTCTATAAGACAAAAGAGGA  
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT  
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAGGAAGAAGA  
GGAACGCCCCAAACCAAGCCGCCCCGTGGTGCCTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA  
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA  
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGCTCAGAGAGAGCCGA  
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA  
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCATTTTGG  
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC  
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCTGGA  
CTGGATCCACCAGCTGGAGTCTGAGAAGTTGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT  
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA  
GTGAGGATGCCGCCCCGGACAGTGGCACCTGGGAAGCCTGGGAGTGTGTTGTCCCATCGGTAGCTTGAAATAAACG  
CTCCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5609**

MSDTEEQYEEEQPEEEAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDLELQTLIDVHF  
EQRKKEEEELVALKERIERRRSEAEQQRFRTKEKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAF  
GGYLVKAEQKRGRQTGREMKVRILSERKKPLDIDYMGEELREKAQELSDWIHQLESEKFDLMAKLRQKYEIN  
VLYNRISHAQKFRKGAGKGRVGGRWK

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**FIGURE 5610A**

CGCCCAGCTAATTTTTGTATTTTGGTAGAGACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAACCTTCTGAC  
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCTTGAGCAGACTGTGCCCCCTCAGG  
GCCTTGAGTGGCAGCTGGTGGGGCAGCTCTTGCTTGGAGCCGTCAGGCACCGTGTGAAAGTTTGGAGGAGGGA  
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG  
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC  
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCTGGTGTGGGCC  
CTTGTCTTGCCTGACCCCTGTCTCTGCCCTTTCCCTTTCCTGGACAGGGGTCTCTGCAGTTCACAGAAACCCAG  
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCGGCCCTCCGACCCGAGCCCCACCCGCTG  
TGCTTGCCCTCCAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG  
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTGACAGCACCAGGAGCCTCAACCCACTGCTGGCC  
AGCTTCTTCAGCAAGGTCAATGGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG  
GATGACTTCGTGGACCTGTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC  
TGTGTGGAGCGGCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT  
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG  
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG  
ACGATTGAGCAGCTCTTAAGCAACATGTTGAGGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAGGTG  
CTGCTGACCTTGTGAGGCCAGGAGGCGAGGTCCGAGTCCGTACCGTGAACAGCTTCTTCAGCAGTGTGGAT  
GGGCAGCTGGAGCTCCTGGCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGCGCCTTGCACGCCCTACGC  
CCGCGGCTCAGCTGCTTCCACAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG  
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCTGAGCGCCAATGATGCA  
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCCAACACCATGCTGGACCTTCTTCCATTATGCTTTCAAC  
AACTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT  
GAGAGGCCCATCCAAAACCTGTTGTGAAACATCTGCTGCAGCAGTGCCGCTGGTGGAGCGGATCCTGACGTCC  
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC  
GGTGCCCTGTGTCAGAACACGAGAGAAGGGGCCAATGCAGAGCAGCTGCGGCAGCTGTGTAAGGAGCTGCCAGC  
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGCCCTGGCGGAGACCAACAAGAAGAATGTTGGACCTG  
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG  
GCTGTGCTGCAGCAGGCCTTCATGGACTTCCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC  
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC  
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT  
GATGATGAGGAAGAGGAGGACGAGGAAGAGGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCCTGGCAG  
GGCAGCCAGCTGGCCAGGGGGGCCCCGTCTGGGCCAGCCACCTGGTGTCCGGAGTGGAGGCAGCACAGACAGTGAG  
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC  
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCCTACA  
GATGCCCCGACCCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC  
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCCGTGACGCCCTGCAGCTCAGTCTCAG  
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCTTGCCAG  
GCCTTGGTTAGCATCGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA  
ACCAGAGACCCCTTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCAGACCACAGAAGGGGAGAAGAGC  
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCAGCCCTCCTCCGATACCCAATGGCTCTGCC  
CCGGAAGGGCTGCATCCTCAGGCTCCCAATAGCTGCTGGTGGCGGAGCGGGCCAAATCTTCCGTCTCCCG  
TGGATCTCCCGGGTGGGGGAGGGCGGGTCCCACGATGGCCCCATTGCCCTCATCACCCCTGACACCCCAAT  
TCTCTCTCTGGACCCCAAGGAGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCAATTTGCACTGAGAAGAGA  
AGTTTTGGAGCGTTGCCTCCTAGATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT  
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGGAGACCCGAAGTGGGCTGGCGGCTCCAAGCAC  
AGCCTTCCCTGTTCCGTCCCAGCGGGAGCTGGTGTAGGGGTCCCAGGTTGCCACCCAGCTGCCAGCTGTCCC  
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCTTTTAGCTCAGGTCCACCATGGGGGACGGCCAGCGTGG  
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCCGTGCCCTTGCCAGACCCTGCACTTTCAACCAGGCCAGTCCGG

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**FIGURE 5610B**

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG  
TGACCTTGTCCTCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTGCCGAGCTTCTATTTCATAT  
TGCAAATATAAATAAAGGAAGGCAGTTTACG



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**FIGURE 5611**

MGILINRKTDQLVSFLRKDDFVDLLLQHIGTSAIMDLLRLTLCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS  
KDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEQEQQSVIVSGIQVLLTLE  
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGMLAPPLG  
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN  
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTKEGPNAEQLRQLLKELPSEQQEQW  
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFPPEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG  
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEAQSGESDGEDGAWQGSQAR  
GARLGQPPGVRSGGSTDEEEDEEEDEEGIGCAARGGATPLSYSPGPQPPGPSWTATFDVPVTDAPTSP  
RVSGEELHTGPPAPQGFLSVFQGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG  
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQAQALTPPPIPNGSAPEGPAS  
SGSQ

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**FIGURE 5612**

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC  
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT  
CTTCACAAACGGCCCATGTGACACGAAGGCTCAAGGGGGAGCCGCCTGCCCTGGCGCTGCCCCGGCCTCCAG  
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA  
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGGGGCTCTGAAGAGCCAGACCTCCTCCAGAACCAGT  
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTGGCTGCCCTCCGAGGCCAGCGGGAGGAGGTGGAGCAG  
ATGAAGAGCTGCCCTCCGAGTGTGTACAGCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG  
CAAGAGCGAGAGGGGGCCCTGGAGCTGTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG  
CTGTCTGGCATGCACCTGTGGTGGGCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG  
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG  
CTGCGGCTGTGGACCGCGACGCCTGCGACACGGTGC GCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA  
GAGCAGGAGGCTGGGCTGTGCACTTCTCCGCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG  
GTGCAGAAGCTCAAGGTCAAATCAGCATTCTGTGTCAGAACCTGCTGGTGGGCCACCCCTGAACACAAAGGGACC  
CTGTGCTCCATGGGATGGTCCAGCAGCTGGTGGCCCTGGTGC GGCAGAGCACAGCCCCCTCCACGAGCAGCTG  
CTTGAGCCCTGTGACGCTGGTGACAGACTTTCGCGAGGTGTGCGCGAGTGTGCGGAGCCGGAACCTGGGCCTG  
GAGGAGCTCCTCCGCCACCGCTGTGAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA  
AAGCTGCTACAGACCTGTTTCTCCAGCCAGCGGACGACAGCATGGATCGGTGAAACCAGGTGGCTTCTTGCCCC  
CTTCTCCGTGGGAACCCAGGCCTCTTGCTCCCTCCCACTACAAGGCCCTCTCCCAAGGGATCGCAGGGCCT  
AGGTGCCTGGACCCAGGCTGTGCCAGCCGCTCTCTGTGAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC  
CTTGACCCACCTCCCATGCTCTCACTCTCATCCCCGTCTCTTGTCCACACAGCTCTTCCAATAAAGGTGTTT  
CTCTCCTCCTTCTC

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**FIGURE 5613**

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGCTGCGCATCTGCAATGGATGGTCGTGCGG  
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAAT  
TCCTTCCGCTACAACGGACTGATTACCCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCTGTG  
GTGGTCATTAAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT  
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC  
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC  
TCCTTGAGCCCCCTGCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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**FIGURE 5614**

MSAHLQWMVVRNCSSFLIKRKNQTYSTEPNNLKARNSFRYNGLIHRKTIVGVEPAADGKGVVVVIKRRSGQRKPAT  
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPMVKRKRTRPTKSS

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**FIGURE 5615**

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG  
AGAACCTACCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA  
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG  
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA  
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG  
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCGAGTCTGCACTCAACG  
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG  
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGTGGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG  
ACCCTGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA  
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGGCGCTGTAGTGGGCTCTCTTCC  
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGG  
GGTCGGGAGGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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**FIGURE 5616**

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVFNPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDFPASPP  
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL  
LTEIHGGAGGPPSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDKKRALRALRRL

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**FIGURE 5617**

AATTCTTTCAATTCAGAGTTGAGCAAACGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT  
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT  
TTTGTTTCTGGGCTCTTTCTTCTTGGCCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCTG  
TGTTTTCTCATTGTGCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAGAAGTGTCTT  
CTATTCTTCTCAGTCCCTTCTCTGCATTGTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT  
TGGGACTCCAGAGAGTTACTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG  
CAGAGGCCAGCTCTCTCCGTCATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT  
GTGGCTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC  
AGTCTTGCATGCAGTGTGAAAAAGGTAATGTCCCTCTGTGCTGAGCGAGCACCTGGCACACAGCAGGGAGCCC  
AGGCAGTGGGGCTGTTAGGTTCTTATCTCTCCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGTCTGGTCTTCT  
GGCTTCCCCGTTCTTCTGCGGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGAGCCTTCGTCCGGGAGTCG  
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGTGCTGTCAGCCGGGCACCAATGTCAGCTCGTCTTGAGG  
CGCCAGATGAAGAACATCGTCCACAATACTCAGAGGCGGAGATCAAGGTTGAGAGGCCACGAGCAATGACCCC  
TGGGGCCCATCCAGCTCCCTCATGTGAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG  
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG  
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGAGCAGTGCAAGGAGAAATGTACGCCGTGCAGACGCTGAAG  
GACTTCCAGTACGTGGACCGGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGCC  
CTGTGCGCGACGAGGACCGGCTGCGGGAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC  
GCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCCGAGAGCAGCGGG  
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTGCG  
GGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCTGCTCCCTC  
ATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCCGACCACAGACCCCTGGGGGGGCCAGCACCCATG  
GCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGGCCCCCTGTCCCTCCAGCTGCTGATCCC  
TGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGAACCCCTGGAGGCCTGTGCCCCCTGCAGGACCCCTCAGTTGAC  
CCTTGGGGTGGGACCCAGCCCCCTGCAGCTGGGGAAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGGG  
GTCCCGGTGAGTGGGCCCTCAGCCTCCGATCCCTGGACACCGGCCCGGCCCTTCTCAGATCCCTGGGGAGGGTCA  
CCTGCCAAGCCCAGCACCAATGGCACAACAGCAGCCGGGGGATTGACACGGAGCCCGACGAGTTCTCTGACTTT  
GACCGACTCCGACACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG  
GCCCCAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT  
GCAGCCACACCAACTCCCACGCCCCCACCCGGAAGACGCCGAGTCATTCTGGGGCCCAATGCAGCCCTCGTC  
GACCTGGAATCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCCTCCAACCCCTTCTGCCAGGC  
GGAGGCCAGCCACTGGCCCTTCCGTACCAACCCCTTCCAGCCGCGCCTCCCGCGACGCTCACCTGAACCAG  
CTCCGTCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC  
CTGCCCCCATGATGCCCCGGGGCCCCCGGCCCAACACTAATCCCTTCTCCTATAATCCAGGGCGGAAGGG  
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTGTGAGTGCATGTGAAATGG

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**FIGURE 5618**

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKNWRHVY  
KAMTLMEYLIKTSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLVALLRDEDRLREERAHALKT  
KEKLAQTATASSAAVSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG  
GKEESSLMDLADVFTAPAPAPTTDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTASGDPWRPAA  
PAGPSVDPWGGTPAPAAGEGPTPDWGGSSDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDE  
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVRGSLAEAVGSPPPAATPTPTPPTRKTPESFL  
GPNAALVDLDSIVSRPGPTPPGAKASNFFLPGGGPATGPSVTNPFQAPPATLTNLRLSPVPPVPGAPPTYIS  
PLGGGPGLPPMMPPGPPAPNTNPFLL



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**FIGURE 5619**

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCTCAGCATGTCGGACTTCGACGAGTTCGAGCGGCAGCTCAA  
CGAGAATAAACAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG  
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG  
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA  
GGTCCGTAAATACTGGGACGTGCCACCCCAAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC  
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT  
GCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGGCAACATCCCTTTGGCATCACTGA  
GGAGGCCATGATGGATTCTTCAACGCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCTGGCAACCCAGTGTT  
GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTGGAGTTCCGCTCAGTGGACGAGACTACCCAGGCTAT  
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCTTG  
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCACAAGCTGTT  
CATCGGGGGCTTACCCAACCTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCCCTCAAGGC  
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT  
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT  
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCTGCAAGTGCCGGG  
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCCTGTGCCTCATGAACATGGTGCTGCCTGA  
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT  
CAAGTCCATCGAGATCCCCGGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTCAC  
CTCTGTGTTTACTGCCAGAAAGCCATGCAGGGCCTGACGGGCCGCAAGTTCGCCAACAGAGTGGTTGTCACAAA  
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGTTAGAGGCGGCTGGGGGAGGGTGGGGGCAGGGTGG  
CTGGGGGCTTCTCCCCACTCCCGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA  
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGGTTGGGGGGTTGGGGGGTT  
AGGGCAGGGAGGGGACTGGGGAAGTGCACACAGCCCCACAGACAACACGCACG

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**FIGURE 5620**

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSDRKRRSRSDRRNRDQRSASRDRRRRSKPLTRGAKEEHGG  
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTDGLAVTPTPVPVVGSMTRQARR  
LYVGNIPFGITEEAMMDFFNAQMRLLGGLTQAPGNPVLAVQINQDKNFAFLEFRSVDETTQAMAFDGIIFQGQSLK  
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDQVKELLTSFGPLKAFNLVKDSATGLSK  
GYAFCEYVDINVTDAQIAGLNGMQLGDKKLLVQRASVGAKNATLVSPSTINQTPVTLQVPGLMSSQVQMGGHPT  
EVLCLMNMVLPHEELDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT  
GRKFANRVVVTKYCDPDSYHRRDFW

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**FIGURE 5621**

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCGCTAGTGGGGAGAGGTGACTA  
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGAATTGGGTAGTGGGGCTC  
TGGGGAGGTACCTAGAGAGGAAGTGAGGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG  
GACGGAGGGCCAGGAGGCCGATACGGGGCCGGTGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA  
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGCCGGTCAGGAGGCCCGGGGICTA  
AGATGTAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTGAGAGGAGAAAAGGAAGAAAAG  
TCGGGGGACTACGTCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG  
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCAAGT  
TTTTATTTTGCTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTCCATTTT  
AGGAAACTTTTCTAAAGGAAGTGGCAATTTTAACTAATCTCCCTCCGCCGCTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT  
CCCCCTTTCCCCAAGGCGGAAGGCCCTCTCTCACTCTCTCTCGGCGGCGGGCCCCGACCCCCGCGGCTGGGC  
CGCCACCTCTCATCGACGCAATGGGGTCCCTACACATACAGGTGCAGCTGAGGAGGAGCCCCGGGGCCCCG  
CCCCAGCGCGAGGCGCCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCCGTGTCTTT  
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGCACTCGGACCTCAAGCCCTTCACGTGCGGCGCTGCGGC  
AAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGCGATCGCGCCACGCACCGCGCCCGCGCCGGGCGCGCCACACC  
TGCCCGCTCTGCCCACGCCGCTTCCAGGACGCCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTTAAGCTCGAGAC  
CCGGCCTGTGCTGCCCTGCCGCTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACACC  
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCTTTC  
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCTGTTGCCCTCCCTGGGCTGGGAACCAAGTCGGAAGT  
GGTTCCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTCTG  
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTTCAATTTCTGTATC  
TACCCCTTCCGCCACGCCCCGACCCCTTGTCAATAAACATTCCGCACTCCAAAAA

A

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**FIGURE 5622**

MLLLPPRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPPRLGRHLLIDANGVPYTYTVQLEEEPRG  
PPQREAPPGEFGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPH  
TCPLCPRRFQDAAELAQHVR LH

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**FIGURE 5623**

CCTTGTCTGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG  
TTGCCATGGCCCCCAGCCACCTGTCTAGTGCGGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA  
AGGCCGGCGTGAAGGACACGGAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG  
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTCTCTGGCTG  
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG  
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTGGCTCTGGCCCTGGCACAATGCAGGGGACGGGGCCC  
GGGTACCCGCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG  
CCCCGGCTCGGGCCTGGGCTGGGGGCATGGGGGAGCCCCGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCCT  
GGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG  
TGAGGGAATTCAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC  
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCTGGGCCCAGA  
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTGAGCT  
TCTCAGAGTGGGAATGACTCCTTTTCTTCTTCCCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT  
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA  
GAGCTATCTGGGGAGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGCGACTCCGCCTCCCTG  
GGACCTGGATTGGGTGAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT  
GCCAGGCCTGGCCCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCCTCCAGATCCGCTCTGG  
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

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**FIGURE 5624**

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA  
AVKLGLRARWGS�PPPGGLGGPWVAVRSGDVCGVLALAPGTNAGDGARVTRLVSRWHRRRGVGRRLAFAEAR  
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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**FIGURE 5625**

CGGCGGCGGCGACAGGACCGAGGGGCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG  
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTTCGGGCGC  
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG  
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT  
GCTGTTTCGCATCATGGCAAAAGACTTGGTGGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC  
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTACC  
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG  
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA  
GAGGAGAGTGATGCTGTGGTGTCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTGCAACCTC  
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAAGCAGAGGCCGAGCCTCAGCCCTAGCTGAT  
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTTGAGTGCCCCTGCCACTCCGAGATAACCAG  
TGGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAAAAAA  
AAA

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**FIGURE 5626**

MDLLFGRRKTPSELLRQNQRALNRRAMRELDREERQKLETQEKKIADIKKMAKQGQMDAVRIMAKDLVRTRRYVRK  
FVLMRANIQAVSLKIQTLKSNNMAQAMKGVTKAMGTMRQLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA  
MGDEEDEESDAVVSQVLDELGLSLTDELSNLPSTGGSLVAAGGKAEAAASALADADADLEERLKNLRRD



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**FIGURE 5627**

GGCGCGGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGC GG GTTTCGGCGGGCGGCTGAGGAAGAAGCGC  
GGGCGGCGCCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGGCGGGCAGCGG  
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCTCGCGGGCGGGCGGGCGGCAGCGGCCAGCAGTTGGCGGGCAGCGCG  
TCTGCGCCTGCGGGCGGGCCCCGCGCCCCCTCTCCCCCCTGGGCGCCCCCGGGCGGCGTGTGAATGCGGGCCTC  
CGCGGGCGGAGCCTCGGCAGCAGCGGCCTCGGCCGCTCTGGCAGCCCGGGCCCCGGGCGAGGGCTCCGCTGGCGG  
CGAAAAGCGCTCCACCGCCCCCTCGGCCGCGAGCCTCGGCCTCTGCCTCAGCCGCGGCGTCTGTCGCCCGGGGGG  
CGGCGCGGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCTGCGACCCGAGAGGGAGCCCCG  
CCTGCTGCCCTGTTTGCACCTCGGCCTGTAGTGCTGCTTAGGGCCCCGCGGGCCCCCGCGGCCAACAGCTCGGG  
GGACGGCGGGGGCGGGCGGGCGACGGCACCCTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT  
CGTGGAGAATTATTTTCATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCCAGGATGCGAACCAGTGCTGCAC  
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA  
GGCGCACCAGCGGGTGAAGTACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA  
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG  
CCGAGACTGCCAGCTCAATGCCACAAGGACCACCAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA  
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCAACAGGAGGTTTCGCAG  
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA  
GGAGCTGAATAAGCGGGGGCGGTGTGCTGGTCAATGATGCCAGAGGTGACTGAGGGGCAGCAGGAGCGCCTGGA  
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA  
GAGTGACAACAACACAGCCCTTTTGCTTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT  
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCAGTGGGACCTCAATGCCCTGGACCAAGAGTGCCGAGGC  
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCCTAAGTCAACAGGCGCTGCACCCATGGCCCCCTCAAGAGCCCC  
AGGGCCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTCAGG  
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTGAGGTGTGAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG  
CGGCCTTATGCGCAAGGTGCCACGAGTGAGCCTTGAACGCCTGGACCTGGACCTCACAGCTGACAGCCAGCCACC  
CGTCTTCAAGGTCTTCCCAGGCAGTACCCTGAGGACTACAACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC  
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGGCCCCACCCCTGGCTGGCATGGCCATTGTCAA  
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCTACTGCCACTGAGGGCCCTGAGACCAACCTGTGCTTAT  
GGCTCTTGCAGAGGGTCTGCTGCTGAGGGTCCCCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA  
GGTGGTGGCTCCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCCGGGAACCTGGATGACAGTGCCACCATTGCGG  
TGCTGTCCAGAAGCCAGGCGATCTGGTTATGTGCAACAGTGTGAGTTTTGTTTCCACCTGGACTGTACCTGCC  
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA  
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG  
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCCCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT  
CTCCCTGGACCAGCCCGGTGGCACCCTGGATCTGACCTGATCCGTGCCCCGCTCCAGGAGAAGTTGTACCTCC  
CTACAGCTCCCCACAGGAGTTTGCCAGGATGTGGGCCGATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA  
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA  
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCCGATGAGCCTGCCTGGTGGCTGAGTTCCAGGAGCTGTCTGG  
TGGCCCTGGTGTATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCCCAGCCTGGCTCTGTTCTCTGCTCTGCTCACC  
CCATCCCCACTCCCCTGGTGGCTGACTCCCACTCCCTGGTGGCCCCATCCCCAGTTCTCAGCATATGGTTTTT  
TACTTCTGTGGATTAAATAAAAACTTACCAGTTAAAAA

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**FIGURE 5628**

MAASAAAASAAAASAAAGSPGPGEGSAGGEKRSTAPSAAASASASAAAASSPAGGGAEAELELLEHCGVCRELRPE  
REPRLLPCLHSACSACLGPAAPAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDAN  
QCCTSCEDNAPATSYCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD  
TLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVKMAIL  
QIMKELNKRGRVLVNDQKVTEGQQRERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRA  
LKMIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERP GTNSTGPAPMAPPRAPGPLSKQSGSSQPMEVQEGYG  
FGSGDDPYSSAEPHVSGVKRSRSGEGEVSGLMRKVPRVSLERLDLDTADSQPPVFKVFPGSTTEDYNLIVIERG  
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETAAIGAPPTATEGPETKPVLMAAEGPGAEGPRLASPSGSTS  
SGLEVVAPEGTSAPGGGPGTLDDSATICRVQKPGDLVMCNQCEFCFHLDCPLALQDVPGEWSSCLCHVLPDL  
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK  
LSPPYSSPQEFADQVGRMFKQFNKLTEDKADVQSIIGLQRFETRMNEAFGDTKFSAVLVEPPPMSPGAGLSSQ  
ELSGGPGDGP

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**FIGURE 5629**

ATTTATTATTGTTCTGGTCACTGTCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAGATGGCAGCCTCTTTC  
TTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTC  
AAGCAAATGACTTTGCAGCTTGAACCTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGGAAGAAGCTT  
GCAAACCTCTTGATCAAGCACTATGAAGAACAACAAGCTTGGAAACATAACCTTAAGAATCTTTCAAAGATGGAT  
AGAAAGGATCTCTGCATGAAGGTCATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCACGCAAAGCAG  
AAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA  
GAATGTGACCATTGAGCCGCTTTTGTCTCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGA  
CCACAAGGAATTGGAAAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTCGGACAACAAGATCTTTCTGGGAT  
AGGTTCTGTACACGTTCTATTCTGTCTGCAGAGAACTGAGGGAGTTGCCGCCAACGAGTTTGGCTGACTTGATT  
TCCAGAGAGTGGCCTGACCCGCTGTCTCTATAACAGAGATCGTGTCTCAACCGGAGAGACTCTTGTTTCGTATC  
GACAGCTTCGAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTCCGGATCTGTGTGGTGACTTGATGGAGAAACGG  
CCGGTGCAGGTGCTTCTGAGCAGTTTGTCTGAGGAAGAAGATGCTCCCGGAGGCCCTCCCTGCTCATCGCTATCAA  
CCCGTGTGCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGT  
GATAGTTAGTGATTTTCTGTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA  
AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGTCTGGATCCTGTGTACCAGTCTGAAGCAAGAGATG  
CAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTTCGTCTTTAACCTGTTT  
ACACCTGAGGGTGCCGAGGGCCGACTCCGCAAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAG  
GGTATGTGGACAGACACATTTGAGTTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCT  
GCGCTGTCTGGGCACCAAGATACTTCTGAAGTACGGGGAGCGTGAGAGCTCCTACGTGTTTCTCCAGCTGTGTATC  
CAGGAGTTCTGTGCCGCTTGTCTATTGTCTCAAGAGCCACCTTGATCATCCTCACCCAGCTGTGAGATGTGTA  
CAGGAATTGCTAGTTGCCAATTTGAAAAAGCAAGGAGAGCACATTGGATTTTTTTGGGGTGTTTTCTAACTGGC  
CTTTTAAATAAAAAGGAACAAGAAAACTGGATGCGTTTTTTGGCTTCCAACGTGCCCAAGAGATAAAGCAGCAA  
ATTCACCAGTGCTGAAGAGCTTAGGGGAGCGTGGAATCCTCAGGGACAGGTGGATTCTTGGCGATATTTTAC  
TGCTCTTTTGAATGCAGGATCCTGCCTTTGTGAAGCAGGCAGTGAACCTCCTCCAAGAAGCTAATTTTCATATT  
ATTGACAACCTGGACTTGGTGGTTTTCTGCCTACTGCTTAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC  
GTTCAAATGTCTTTAAGAAAGAGGATGAACACAGCTCTACGTCGGATTACAGCCTCATCTGTGGCATCACATC  
TGCTCTGTGCTCACCACCAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCCTCAGCGAGTCGACCTTT  
GTGACCTGGTGTAACCAGCTGAGGCATCCAGCTGTGCGCTTCAGAAGCTTGGAATAAATAACGTTTCTTTTCT  
GGCCAGAGTGTCTGTCTTTGAGGTGCTCTTTATCAGCCAGACTTGAAATACCTGAGCTTCACCTCAGGAAA  
CTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAACCTACCCAGCAGGCAACGTCAAAGAGCTAGCGCTG  
GTAAATTGTACCTCTCACCCATTGATTGTGAAGTCCTTGCTGGCCTTCTAACCACAACAAGAAGCTGACGTAT  
CTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCAGACACGGTC  
CTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGT  
AACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC  
TTGAAACATCCGGACTGTGCTGGATTCACTGTGTTTGGTAAATGTTTTATCACTGCTGCTGGCTGTGAAGAC  
CTCGCCTCTGCTCTCATCAGCAATCAAAACCTGAAGATTCTGCAAATTGGGTGCAATGAAATCGGAGATGTGGGT  
GTGACGCTGTTGTGTGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTGGAAGAATGTGGGTTA  
ACGAGCACCTGCTGTAAGGATCTCGCGTCTGTTCTACCTGCAGTAAGACCCTGCAGCAGCTCAACCTGACCTTG  
AACACCTTGGAACACACAGGGGTGGTTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTC  
GGGCTGAGAAAACTGATTTTGTGAGGAAACCCAGGCACTTCTGACGGCTGAGGAAGAGAGAAATCCTAACCTG  
ACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATCTGATTGCGAGGAACCTGGGCTCTGACTCGAACA  
CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA  
GTTGTGAGATTTCTGGCACCCATTATAGATTTGATATGATACAGTGGTTTTTATGTGCTCTGTGGCCTTGGA  
TGAGTCACTGAAAGGCCTTCATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTACATTTT  
TAAACATTGG

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**FIGURE 5630**

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI  
FQKMDRKDLCMKVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEEVKQEECDHLDRLFAPKEAGKQPR  
VIIQGPQGIGKTTLLMKLMAWSDNKIFRDRFLYTFYFCCRELRELPTSLADLISREWPDPAAPITEIVSQPER  
LLFVIDSFEEELQGGLEPDSDLGDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPELRDQVTISEIYQPR  
GFNESDRLVYFCCFFKDPKRAMEAFNLVRESEQLFSICQIPLLWILCTSLKQEMQKGKDLALTCQSTTSVYSSF  
VFNLFTEPGAEGPTPQTQHQLKALCSLAAEGMWTDTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF  
LHVCIQEFCAALFYLLKSHLDHPPAVRCVQELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQ  
EIKQQIHQCLKSLGERGNPQGQVDSLAFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR  
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGHLRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN  
NVFSGQSVLLFEVLFYQPDLYLSFTLTKLSRDDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLAGLLTNN  
KKLTYLNVSCNQLDTGVPLLCEALCSPDTVLVYLMLAFCHLSEQCEYISEMLLRNKSRYLDLSANVLKDEGLK  
TLCEALKHPDCCLDLCLVKCFITAAGCEDLASALISNQLKILQIGCNEIGDVGVLQVLLCRALHTDCRLEILGL  
EECGLTSTCCKDLASVLTCSKTLQQLNLTLNTLDHTGVVVLCEALRHPECALQVLGLRKTDFDEETQALLTAE  
RNPNLITDDCDTITRVEI

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**FIGURE 5631**

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGCGAAGGCGTGGC  
GGGAGTGTGCGGCGCCGGACCCGGGAAGCTGGCCTGGGCGCCGGGTCTCGAGTGCAGGCCTTTGTTCTGAAGTGT  
CCAGGCCGGCCTTGCGGCGTCGGGACTGAGGAATGGAGCCCGTCGCGGGCGGGGCGGGAAAGGAAGGTTCAAGT  
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTCAGGTGCTAGATGCGGCGC  
TGCAGAGGCTGTGCATCACATACACCTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT  
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCGTGAAGCTTCGCTGCGTGCCACCGCTGCGTGCTGGCGGC  
CGGCTCACCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA  
GACAGTGGCAGAGCTGGTAGAGTTCTGTACAGCGGTTGCTCGTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT  
CACGGCCGCGTCAGTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC  
GGGCACCTCTGCGCCACGCCCTGCCCCACCCCTGTGCCCCGCCACTCGCACCTGCGCAGCTGCGTACCGCCT  
GCGCCACCTGCTGGCTGCACGTCCCCCGGGGACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGG  
TTTGCAGTGCACAGCGCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGCCCC  
TGATGACCGAGGTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGCCC  
AGGCGAGGGCCAGGCACCTCCTTCTTCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCGTG  
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTCTTCCGGGAGCTGGGT  
AGCTGAGGACGTATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC  
CACTGAGACCCCTGTCCAGCCGACTGCATACTGTCTGGATCCCGCCCGCTGGTGTGAAGACCCAGGGCGGCC  
CGTTGCACTCTTCCCCCTTCACTTGGGTGCCCTGGGCCACCCGCACCCCTTCAGCACCATCGGGGCCAGC  
CCCTGCGCCCCACCCGCTTCTACCCACACTCCAGCCCGAGGCAGCCCCCAGTACTCAGCTGGGGGAGGTCCC  
GGCTCCCTCTGCTGCTCCACACGGCCCCCTCAGGCACCCCTGCTCGCACCCAGGTGCTGAGCCACCTACGTA  
TGAGTGCAGCCACTGTGCAAGACGTTAGCTCCCGAAAACTACACCAAGCACATGTTCACTCCACTCGGGGA  
GAAGCCGCACCACTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTCACGCA  
CACCGCGGTGCGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTCACGCAGAAGAGCTCGCTCAACGTGCACAT  
GCGCACTCACCGCCCCGAGCGCGCGCCCTGCCCCGCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG  
CCACCTGGCGGCGCACCTGCGCCCTGATGGCGCTGGGGCCTGGCCTCGCCACGGTGGATCCGGGGCCTCCCGC  
ACAGTCGGCCACGCCCGCTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCCCTCT  
CTCTCCCTTACCCCTTCTCCATACCAGGGCCTAAGTCCGCTTACTCCTCTCCTCCATGTACTTGAACCTCCA  
GGTGGTGCCGGCTGGGGCTGGGCTGGTTAGACCACCTTCTGAGAACTGGACTATTTCTGCGTAAACCGGGCGC  
TCAGGCGCTTGGACCCGGCCCAAGATTTGACTCCGTTCTACCCCGCCCTCTCCTGGGGTGGTGGTGGGGCTG  
GGGGCGCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG  
GGGCGCTAAGGAGACTCAAGTGACCCATCATATATGGGGGCTGGGCTCGGGACTCTCGCTCTAATAAAGGAC  
TGTAGGCCATGGGGCTAAACCACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5632**

MAAAEAVHHIHLQNF SRSLLET L NGQRLGGHFC DVTVR IREASLRAHRCVLAAGSPFFQDKLLLGHSEIRVPPVV  
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLRIQTVIDECTQIIARARAPGTSAPTPLPTPVPPPLAPQLR  
HRLRHLAARPPGHFPGAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGEDEDEESDDETDGEDGEG  
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDGAVPE  
GCPTETPVQPD CILSGSRPPGVKTPGPPVALFFH LGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG  
EVPAPSAAPT TAPSGTPARTPGAEPPTYEC SHCRKTFSSRKNYTKHMF IHSGEKPHQCAVCWRSFSLRDYLLKHM  
VHTGVR AFQCAVCAKRFTQKSSLNVHMRTHRPERAPCPACGKVF SHRALLERHLAAHPAP

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**FIGURE 5633**

GGCGGCGCGTGGTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGGATGACCGAGTGGGAGACAGCAG  
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA  
TTTCCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG  
CCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA  
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATACCTGCTCACAGGCGAGAACC  
CTCTGCAGGTCTTGGTGAACGCCATCATCAACAGTGGTCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA  
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG  
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG  
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCTGATTTTCCC  
AGCTGTGCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAA

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**FIGURE 5634**

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNS  
MMMHGRNNGKKLMTVRIVKHAFEIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPLRNVQA  
IWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR



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**FIGURE 5635**

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT  
AAATAAATAAAAAATAAAAAATAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA  
GTGCCACCCAGATAGCCTCACAAAACTTTGACCCAGCCACTGTTAGTGTCGCCACCGCCCATAAAGGAGCTGAGC  
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGCCTGGTG  
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA  
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCCCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC  
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG  
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCTGCTAGGACAACCTAACATTGATAGCCCTTTGA  
ACACACATGCTACCAAGCTCTGGGAAAACCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA  
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC  
AAACATGGAGAAATGTCATCCCTATTTAAAAAATAAAAAAATTAGCCAAG

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**FIGURE 5636**

GACTCAGGTGAACTAACCTGCGAGAAGCTGGETTGTGCGCTGAGGCGACACAGCGCCGGAAGGCACGGTGGCGACTC  
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCGGGCCCCCTTCCTCGG  
TCATTGTCTCCCCCTCCAGCTCTACTCACAGGCTCCGATGGCGGCGCCGCCCTGAGGGACCCCGCTCAGGTTCCCT  
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCAG  
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACCTTACACTTCTG  
GCCTCTCTCGGACTTGCATCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT  
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG  
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCTTAAAA  
AGACAACAGGGCAGGGTCCCAGTTTTGAGGAGTTGCAAAGTTTACCTATCAGAGAAGTCCTTGCAAAGCAGGGAG  
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTTCAAGCACCAGGTGACTCACACAGGAGAGAAGTCACATAGG  
AGCTCCAAAAGTAGGGAGGCCCTTCATGCTGGAAAAGGCCATTACAAATGCAGTGAATGTGGGAAAGCCTTTGGT  
CAGAAATATTTACTTGTTCAGCACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG  
TTATTTAGAGATATGTCCAACCTTTTATACACCAAATAGTTTCACTGGAGAAAGGCCCTTACGGGTGTAGTAAC  
TGTGAAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTTCACTGGAGAAAAGCCTTTTACA  
TGCAGTGAATGTGGAAAAGCCTTCAGGCATAATTCCACACTTGTTTCAGCATCACAAAATCCCACTGGAGTAAGG  
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTTCACT  
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT  
GTTCACTACTGGAGAAAGGCCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA  
CATCAAAAAGTTCACACTGGAGAAAAGCCTTTTAAAGTGAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC  
CTAGTTAGACATCAGAGGGTTTCACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA  
AGCTCAACCTCATGCAACATCGAAAAGTTTCACTTGGAGAAAAGCCTTTTAAAGTGAATGAATGTGGGAGATTG  
TTTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTTCACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT  
GGGAAGTTTTTTCGCCACAACCTCCAGTCTTTTTTAAACATCGAAGGATTCACACTGGAGAAATGCAGTGAATTGTGT  
GAAATCCTTTAGCCAGCGTTTTCAACCTCATTCAACACCAGAAAGTTTCACTGGAAAAAATCTTGAAGGTAACAG  
ATGGAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT  
GGAAAAAGGTTTCAGCCAAAGGCCTAACCTATTCAACACCAGAAAGTTTAGAATGGAGAAAGGCCCTTAGGGTGA  
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAACAGAACTCTGAGGATGGCCTTTATGAGGGAG  
CTGGCAATTGAACATCATTCTAAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCCTTCTCT  
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGGCTGTACCCGTGCAATGGAGT  
TTTGATCTCGCTGAGTTTGGAGTTGGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGCTGTTT  
TTGTGAATGTTAGATCTTCTTTAATAAAATATTTATTTCCCATACACCCTTATGACCATTAAAAAAAAAAAAAAAA  
AA

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**FIGURE 5637**

MAAAALRDPAQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLLDDAQRLLYRNVMLNFTLLASLGLASSKTHE  
ITQLESWEEPFMPAWEVVTSAIPRGCVHGAEEAEPEQIASVGLLSSNIQQHQKQHCGEKPLKRQQGRVPVLRSC  
KVHLSEKSLQSREVGKALLISSGVLKHQVTHTEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLVLVQHQR LH  
AGKKTYECSECGKLF RDMSNLF IHQIVHTGERPYGCSNCGKSFSRNAHLIEHQRVHTGEKPFTCSECGKA FRHNS  
TLVQH HKIHTGVRPYECSECGKLF SFNSSLMKHQ RVHTGERPYKCSECGKFYSHKSNLIKHW RVHTGERPYKSD  
CGKFFTQCSSLMQHQKVHTGEKPFKNECGRFFRENSTLVRHQ RVHTGAKPYECRECGKFFSQSSTLMQHRKVHI  
GEKPFKNECGRLFRENSSLVKHQ RVHTGAKPYECRECGKFFRHNSSLFKHRR IHTGEMQ

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**FIGURE 5638**

GTGCGATCCCGGGCCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGATCACC CGGACCGGGGGATTAG  
CTCCGGTTTGATCACC CGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG  
CGTCCGCTGCTAGGACCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC  
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATGCGA  
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC  
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCAGACTGCCCCCTGCCTGTTGCCCTGAGCCCA  
CCTACTGCTCCAGATCGTGCAACTGCTGTGCCCACTGCCTCCCGTCTTGGGCCCTATGTCTCCTGGAGCCCGAG  
GAGGGCGGGCGGGCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG  
GAAGCCCCGGCCGTGCTGGAGCCCTATGCGCGGCTGCCCCGCAACAAGCATGTGGCTCGGCCCACTGAGGTCTTG  
GCTGGTACCCAGCTCCTCTACGCCTTTTTCTACTCGGACCCATGGGGACATGCACAGCCTGGTGCGAAGCCGCCAC  
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTACCAGCACGGT  
CTGGTCTCGGTGATCTCAAGCTGTGTGCTTTGTCTTCGTGACCGTGAGAGGAAGAAGCTGGTGCTGGAGAAC  
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCCTGTGGGACAAGCACGCGTGCCAGCCCTACGTGGGA  
CCTGAGATACTCAGCTCACGGGCCCTCATCTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGCGCTCTTC  
ACCATGTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCCGGGGGCC  
TACGCCTTGCTGCAAGGCCTCTCGGGCCCTGCCCGCTGTCTGGTTGCTGCTCCTTCGTGCGGAGCCAGCTGAA  
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC  
CATCTCTGGGAGGCTGCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA  
GAAGIGGTTCTGTATGGCTAGGACCACCCTACTACACGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT  
CCAAGCCTTCTCCTGCCTCTGAACTGAGCCAAACCTTCAAGTGCCTTCCAGAAGGGAGAAAGGCAGAACCTGTGT  
GGAGTGTGCTGTGTACACATCTGCTTTGTTCACACACATGCAGTTTCTGCTTGGGTGCTTATCAGGTGCCAAGC  
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAAGGAGACAATATTCCTGCTCACAGAGATGACAACTGGC  
ATCCTTGAGCTGACAACACTTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCAGTGTCCGC  
CTCCACTGATGCTGGTGCTCAGGCACCTCTGTCCAAGGACAATCCCTTTACAAACAAACCAGCTGCCTTTGTAT  
CTTGTACCTTTTTCAGAGAAAGGGAGGTATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCCTGCAACTCAGGACCCA  
AGCCCAGCTCACTCTGGGAACTGTGTTCCAGCATCTCTGTCTCTTGATTAGAGATTCTCCTTCCAGGCCTAA  
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGTCTAACTCAAGACTGTTCTGGAAT  
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG  
TCCTGTGGCCACCTGGAAAGTCCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCCAGGTCCATACT  
CTAGGTTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA  
AAAAAA

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**FIGURE 5639**

MRATPLAAPAGSLSRKKRLELDDNLDTERFVQKRARSGPQRLPPCLLPLSPPTAPDRATAVATASRLGPYVLE  
PEEGGRAYQALHCPTGTEYTCVKYFVQEAFAVLEPYARLPPHKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS  
RHRIPEPEAAVLFRQMATLAHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSCVLTGPDDSLWDKHACPAY  
VGPEILSSRASYSKAAADVWSLGVALFTMLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP  
AERLTATGILLHPWLRQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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**FIGURE 5640**

GGGAGTCCGGGGACCCGCGATCAGCCCCGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG  
GACCCCGCACTCGGCGTCCGCGCCGCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTTCGG  
CCCCCCTCCAGTCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCGCGCGAAGCCGCTCCCTTGC  
GAAGAACTGGGGCTCCCGGAGGAGAGAGGGCTTTGCCTTGAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG  
GGGTCTCCGGGACTTGGAACGCCCGGCTGGGTGGTGTCCGGGCGTCCTTTCCCGCTTCTTCCACCTCGGC  
TGGTCCGTTTCTCTCTGCGCCAGTGCAGGACTGTCTCGGCGCCGCTGCCCTCTCACCGCCCCACGCAGGATC  
CCGGCCTGGTCAACGGGCAGTGTGATGCTTCCGACTGCCGCGGGACAGCGAGGCACACACAGGGCTTGGGCCG  
CGCCGAGGCCACACGGCCTGGCTGAGTTGCTCTGGTCTCCCGCTCTCCAGGCGACCCGGAGGTAGCATTTTC  
CCAGGAGGCACGGTCCCCCAGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA  
AATGCCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC  
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG  
CGTGGAGGATGCTCAGATGCACACCGTCACCATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA  
GGACATGTTTTTCTGGACTATGGCTTCCACCAGTCTTGACAGTGGGTGATTGGGCAGCGGCTGGCACGAGA  
CCAGGAGACCTGCACTCCCATGGGGTGCGGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTACGCCCCGAA  
CACCTCCCTCAACCCTCAGGAGCTGCAGCGGGAGCGGCAGTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT  
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGTCCCCAGGAACCCGACGGGGGCA  
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGTGGCAGTGCCTCGGGTGCACCTTCATCAACAAGCCACGCG  
GCCTGGCTGTGAGATGTGCTGCCGGCGCGCCCCGAGGCCTACCAGGTCCCCGCTCATACCAGCCGACGAGGA  
GGAGCGAGCGCGCTGGCGGGCGAGGAGGCGCTGCGTCACTACCAGCAGCGGAAGCAGCAGCAGCAGGAGGG  
GAACTACCTGCAGCACGTCCAGCTGGACCAGAGGAGCCTGGTGTGAACACGGAGCCCCGCGAGTCCCCCGTGTG  
CTACTCGGTGCTGGCGCCCGGCGAGGCCGTGGTGTGCTGCGTGAAGTGTCTGCACACCTTCTGCAGGGAGTGCCTGCA  
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGTGGGGCAA  
GCTGTGGAGAGGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTCTAGACCTGGGCATCTCCAT  
TGCTGAAAACCGCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTGAGGATGA  
TGTC AATGAGTTACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAA  
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT  
GAAGGTGATGCTGCAGCAGGCGGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG  
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG  
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTGAGAACTGCCA  
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGC  
TTCTGTGGACGGCCTTGCTTGTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTACATCTGCC  
CCAGTGCTTTGTCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCCACCTCTGCCTGACCC  
CAGCCTTAAACATAGCCCCTGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCACCAC  
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCCCTCAGCTGTGAGCTTTCTGGGGCTAACTTCTC  
TGCCTTTGTGGTTGGAGGCCTGAGGCCTTGGAACTCTTGCTAACCTGTTTCAAGGCCAGGAAGGAGACTGCACA  
GTTTTGAAAGCACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTA  
ATGGTTTTCCGGGAA

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**FIGURE 5641**

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHVTIWLTVRPDMTVASLK  
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL  
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPFVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE  
ERARLAGEEEEALRQYQQRKQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRECLHTFCRECLQ  
GTIRNSQEAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFDLGISIAENRSAFSYHCKTPDCKGWCFFEDD  
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC  
DWIRCTVCHTEICWVTKGPRWGGPGDTSGGCRVNGIPCHPSCQNC

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**FIGURE 5642**

GGGAGTCCGGGGACCCGCGATCAGCCCCGAGGACGGGGTGGGGTCCGCCCCAAACAGGAGCGCCGGGACCGCTGG  
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG  
CCCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCTTGC  
GAAGAAGTGGGGCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG  
GGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTCCCGCTTCTTCCCACTCGGC  
TGGTCCCGTTTCTCTCTGCGCCAGTGCAGGACCTGTCTCGGCGCCGCTGCCCTCTCACCGCCCCACGAGGATC  
CCGGCCTGGTACCGGGCAGTGTGATGCTTCCGACTGCCGCGGGGACAGCGAGGCACACAGGGCTTGGGCCG  
CGCCGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCTCTCCAGGCGACCCGGAGGTAGCATTTT  
CCAGGAGGCACGGTCCCCCAGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA  
AATGCCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC  
AGAGCAACGGGTGCCCCCTGAGTGTGCAACTGAAGCTGAGGTCTCCCAACGCAGGACATCAGGCTGTGGGTGAG  
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA  
GGACATGGTTTTTCTGGACTATGGCTTCCCAACAGTCTTGCAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA  
CCAGGAGACCTGCACTCCCATGGGGTGCAGGAGAAATGGGGACAGTGCCTACCTCTATCTGCTGTACAGCCGCAA  
CACCTCCCTCAACCCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT  
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGGTCCCCAGGAACCCGGACGGGGGCA  
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGTGGCAGTGCCTGGGTGCACCTTCATCAACAAGCCCCACGCG  
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCAGGGCTACCAGGTCCCCGCCTCATACCAGCCCGACGAGGA  
GGAGCGAGCGCGCTGGCGGGCGAGGAGGAGGCGTGCCTCAGTACCAGCAGGGAGTGCCTGCAGGGCACCATCC  
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGCTCGGGCAAGCTGCTGGAGA  
GGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCATTGCTGAAAACC  
GCAGTGCCTTCAGCTACCATTCGAAGACCCAGATTGCAAGGGATGGTGTCTTTTGAGGATGATGTCAATGAGT  
TCACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT  
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGTGCCTGGCAGACGACAGAGATGCTGAAGGTGATGC  
TGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC  
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCCCACGCTGGGGCCCTGGGGGCCAGGAGACA  
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTCAGAACTGCCACTGAGCTAAAG  
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGCTTCGTGGACGG  
CCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT  
GTCTTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCCTGCGGCTCCCACCTCTGCCTGACCCAGCCTTAAAC  
ATAGCCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCCAACACAACACTCATCT  
GTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCACTGTGAGCTTTCTGGGGCTAACTTCTCTGCCTTTGTGG  
TTGGAGGCCTGAGGCCTCTTGGAATCTTGCTAACCTGTTAGAGCCAGGAAGGAGACTGCACAGTTTTGAAAGC  
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAATGGTTTTCCG  
GGAA



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**FIGURE 5643**

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTIVRPDMTVASLK  
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL  
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPFVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE  
ERARLAGEEEEALRQYQQGVFAGHHPQQPGGGGLPLH

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**FIGURE 5644**

GACGATGGGGCTGCGTGCAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTCGGGGGGCGCCCGAGGGGCCGGGGCC  
GAGCGGCGGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCT  
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCAGA  
CAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGCCAGGGAGGTGACTACTTCTACTCTTTGGGGGCTG  
CCACCGCTACGCGGCCTACCAGCACTGCAGCGAGAGACCATCCCGCCAAGCTTGTCAGTCCACTCTCTCAGA  
CCTAAGGGTGTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG  
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTGCAC  
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC  
CCCAGTTCCACCTCTGTGACAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG  
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATCCCAAGGACAAGGATCCCTCTGCATTTTGTCTATGTAACCT  
CTTATATGGACTACATTAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT  
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTACG  
TCTTGGATCCTTTTGCCTTAATCTCAGTGCTCGTTACTTTCATGGTCCCAAGATGGCTGCTGTATCCCAAGAATC  
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAACTAGCTGGACCCGTCACCTTCTATCAGA  
AAGTAAAACCTCGTCAGAAGTCTGTTTCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCGAG  
CCAGCTACCATTGCACCTCTAGCTGCAACAAAGCTAAGACAGCAGGGAACAGAATTGTCATGGCTGAATAGACC  
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCATTACCAAGAGAGAAAT  
GCAGAATTGTGTACCAGTTAGCTTTTGTCTGTGTAACAAACCATCCCCAACTTGGCAGCTAGAAACAAACCTGT  
ATTTTCCCAATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC  
CCTCATGGAGCTAAGGTACAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGGCTGGC  
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT  
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAACCT  
GGGACTAGGACAGTGTCACCTCTGCTAAGTTCTTTTGGTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG  
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCAAAAGAGCTTGTGGCCATTTTTCACCTATCACAATAA  
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTTCTCTCTGTCTCATGGGGCCTCACTCT  
GCCAAGTTGGAAGGCACCTAAGACATTGTCTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG  
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCCCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA  
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTCTCA  
CTGCCCTCTAAGGGAACCTGGTCACTCGGCACCTTTAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC  
TTTTCCCATGCATTCTCTTTCCCGGGAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT  
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGGAAACAAAACAGGACATTAGTGGGAAAATTGGAAATCTGAAA  
AAAGTCTGAATTTTAGTTAATATACCAATTCAGTCTCTTGGTTTGGACAGATGTACCATGGTGTGTAAGATGT  
TGACCTTGGGGTAGGCTGGGTGAAGGTATACAGGAACCTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG  
TATCATTCCAAAATAAAAGTTTATTTAATTT

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**FIGURE 5645**

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDWLMVLVQQLHEGRG  
HVLDPFALISVLVTSWSQDGCCIPKNHVCVQGRRGGGRAGLAGPVTFYQVKPRQKSVSCSLPLHIFT

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**FIGURE 5646**

GTCTGAGCGCGCTCGGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCCAGCTGCCTACT  
TTCTGCCCCGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC  
CTGTGCACACGCTGAGCCCCGGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCTGCGGACCAGGGTCCCTGGCT  
ACCTGCTACGGGGGCGCGCAGATGGTGGAGCCCGGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA  
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCTGCTGTCCAACAGCCGCTCT  
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC  
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCCTGCCGAGGCCAGCCGCACTC  
CTGGACGGGCGAGGGAGCCGGCCGTCTCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC  
GCCGGGTGGACGTCCGCCCCCTGCCCGCTCGCCTGCCCGGCCCTGCCCATCACCCGGCCCTGCCGCCGCTCCA  
GCCCAGCCCGGCCCGGGTTTGAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTCTAGGGCAGCCGCTGATC  
TCGAGCGCTTTTTTAACCTTCTGCGGCCTGGACCCGGAGGAGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG  
CCAGCTCGGATATCGTGTCCCTGGCAGGGCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGTCCC GCCGCA  
GCTCGGTGACTGTTGAGGAGCGGGCCCGGAGCGCTTCCCTATGGCGTGTGCGTGGTGGAGCGCAATGCCCGCG  
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG  
AATTGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGCAATCCATTCTCTAGACGGCCGT  
GTCAGAGGCTCCACCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG  
GACTGACTCTCAAGGGTTTTGTTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCCTCCCCAATAACAAGGT  
TTTTGACATGAGTGTA CTCTGCTTAGTTCTCTGTGGGGCTGCATTTGCGGTGCTTTGCCCTCCCCACTGTGA  
GTGAGGGGCCAAGGGATCTCCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCTCCTTCCCTTCTTGGCCTCTGTC  
CTTTGCTGACTTCTCTTCTTACCCAGCAGAACTACCCCTGGGGTCCGGGCAGTGGGGAGGGGCCATCCACTG  
CTCTTCTAGTCCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGGACTGGTTAGGAGTCTGCATTGCTTTG  
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTCTC

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**FIGURE 5647**

GCAAGAACCAGCGCAAGAGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCCGC  
CCCCCTTTCTTCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTTCGCATCGGCAGCGC  
CGGCCATCACCTGCAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT  
TGGGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAAG  
ACCTGTATGTCCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTGAAAGCCATCACCGTGGAGAGCA  
GCATGATCCTCAATGTGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACCTTGGATGATTATATCG  
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA  
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGAGTTCCCCCTGCTACCG  
CCAGAGAGGTGGACCCACTCCGATTCTCCACACCACCCACACACCAGTCGGCAGCCTCCCTGGTGTGATCCCC  
TGGGCCCGTTTGTGTGCGGGGAGAAGACTTAGACCTTTTGGGCCTCGGAGAGGTGGCATGATTGTGGATCCCC  
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCTTCTCAGGCCTCCCGAACCAGCTTCCCTCAGGCGCTGTGC  
CCCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCACCCGGACCTAACCCAGACCATCTCCCCC  
CGCCGGGCTACGATGACATGTACCTGTGAAGCCCTCAAGAATGTAACATCCAGGCTTCCCTCCATTCTCTCTGGA  
GCTGCCACCGCTGTCCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGCAAGGGATTCTGCTCATGTGTTTGAG  
ACCGGCTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG  
CTCCCAAAGAGAAATCAGTGTGTCTCTTTACCATCAGCTCCTCCCTTTACCACCAGCTCCTCTCCACTTCCC  
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCTCGACCAGATGCAGTGTATAGAACAGAACGCATTTTG  
GATGTTATTATTAAGAACCAATGTCAATACAGAATTGATGTTGCCGGTTTCCACTTTTCTTTTACATTAATG  
CATAGCTGCTTCCATTTATGAGACTTTAGAGTTTGAGTTTCTGTAGGGCTGAATGACTCTTTTCTGCCCAGGG  
CCCATTCTTGCTTCTCAGGCACCTTCCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCCCTC  
TGGCTGCATGAATGGAAATGAGTGAAGTGGAAATCCCATAGGCCACAAGAATGACTTTTACAAGGGCAGGAACATT  
GTGGAAAGACTGCATCATTCTGATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTTGTAGGTCCATC  
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTGCCAC  
TAAGTTAGTGAATGACCCTAAGCAAGTTCTTCTCTCTTAGGGCCTTGTGCCAAGCCTATGAAATTGGAGGTGG  
CTTTCCTGCTCTAAAGCATTGTTGATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA  
TGATGGTTCAAGGCCATACTTCCCTTGAACCTTGTGTGTTTCTTGCTAACTCTGTGGTTTTTGGACCCCATGGG  
GCCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGAACCTTCGGGAGGAGCAGGGAGCCCTGCA  
CCTTGTGTCTTGCCCCACCTGACCTTTGGTGTCTCCGGATCCTTTTCAGCCCAGGCCTGACAGACGCGGGCAG  
TGATGAGCCCTGTTCTGGAGTGGAAAGAGCAGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC  
ACTTCCGCTCTGCAGCTAGCATTCAACCATAATGTGGATCCTTTCACTTCTCAGCTCCCTGGATTCTTCCCTTA  
AATTAGGACCTATTATTTACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT  
GTAGCCTCAGATTGCCTATCTGCTTAGCCTGAGAACAGGTAGATGAAAACTAACTGATGCCTAGGCCCAGGGTC  
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTAGTCCCCAT  
GGCAAGCAGTGATTTAGTAAACACCCAGAGTCAGGGAAGCCAACCACTTGAAACCTTTAGAACATCTCTGCT  
TTGGAGAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTCATAACCTTTGAGAGATGGCAAATGG  
GAGGAGTGTTAGTCTTTGTTTTGGAATTGGACCATCTTGCAACCAAAAGGACTTAGAGCAGTTTGCTCATAAAG  
ACATCCTTTATTATAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT  
TTTAGGACCTTGATGTGAGGAAAAGATAAAATTTAAACAATAAATTTGCCACTTAGATTTCTAGCAGCAAAGTC  
CGAAAAGATAGTTATATACAAAATCTGTTTTCTGAAAACAAAATTTGTGATTCACCTTCAGAATTGGCCATTTT  
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT  
AGAGCCTTTAGGAACCTTCTGGTCAAGCTTATGGTGCTATTTTGATCTGGGCCACTTCCCTCCTTCCAGTCATG  
AGTAATCATCAAGGAGCAAGTTGGAGTGTTTCAGGTGTATATTTGTAGAACCCAAAAGATTGGAGCCTTAACAA  
TAAACATCAGCACT

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**FIGURE 5648**

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCGCCCGTCGCGCC  
GCCCCCGCGCTCAGCGTCCGCGCGCCGCCATCGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT  
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACGGGATGCTTGAAGATGGAAAGAAATTTGATTCTCCCG  
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCA  
GATGAGTGTGGGTGAGAGGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT  
CATCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAATGACAGGAATGGCCTCCTCCCTT  
AGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGACATGTGCACATGAGTCCATATGGAGCTT  
TTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCACTCAGCTTTGCTTCCG  
ACACCTCTGTTTCCTCTTCCCTTTTCTCCTCGTATGTGTGTTTACCTAACTATATGCCATAAACCTCAAGTTAT  
TCATTTTATTTTGTTCATTTTGGGGTGAAGATTCACTTTCAGTCTTTTGGATATAGGTTTCCAATTAAGTACA  
TGGTCAAGTATTAACAGCACAAAGTGGTAGGTTAACATTAGAATAGGAATTGGTGTGGGGGGGGGGTTTGCAAGA  
ATATTTTATTTTAAATTTTGGATGAAATTTTATCTATTATATATTAAACATTCTTGCTGCTGCGCTGCAAAGC  
CATAGCAGATTTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGTCTTTGGGTTAAATTAAG  
CCCTACCTAAACTGAGGTGGGGATGGGGAGAGCCTTTGCCTCCACCATTCCCACCCACCTCCCCCTTAAACCT  
CTGCCCTTGAAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT  
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTCAGGAATTTGTAATC  
TCATAACTTTCCAAGCTCCACCACTTCTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT  
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCITAAGAAAATGATGCTGGT  
CATCGCAGCTTCAGCATCTCCTGTTTTTTGATGCTTGGCTCCCTCTGCTGATCTCAGTTTCTTGGCTTTTCTCC  
CTCAGCCCCCTTCTCACCCTTTGCTGTCTGTGTAGTGATTTGGTGAGAAATCGTTGCTGCACCCTTCCCCCAGC  
ACCATTTATGAGTCTCAAGTTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAA  
AAA

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**FIGURE 5649**

MGVQVETISPGDGRTFFPKRGQTCVVHYTGMLEDGKKFDSSRDNRNPKFKFMLGKQEVIRGWEEGVAQMSVGQRAKL  
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

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**FIGURE 5650**

GCACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCGTCGCGCC  
GCCCCCGCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT  
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACGGGATGCTTGAAGATGGAAAGAAATTTGATTCCCTCCCG  
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGTTGCCCA  
GATGAGTGTGGGTCAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT  
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAAC TGAATGACAGGAATGGCCTCCTCCCTT  
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCCTTCACCTGCCTTTGCTCCTCCCATGTTATGCCC  
AGCGTTTGATGGGTAGCAGAGAGAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTTCTGTATTGAG  
TATCCTTTTCACTGTTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCTAAGGAAAGGAATTGGCATGTGTA  
TGTTCCCACTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTTCTATGTAGTTTATAAAATTAAACTGAATT  
GAGGACTATGGAAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAATAA



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**FIGURE 5651**

MGVQVETISPGDGRIFPKRGQTCVVHYTGMLEDGKKFDSSRDNKPFFKMLGKQEVIRGWEEGVAQMSVGQRAKL  
TISPDYAYGATGHPGIIPPHATLVFDVELLKE

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**FIGURE 5652**

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGAGCGCTTTGGAAGGCGCA  
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG  
GGCCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA  
TGAAGACATTGTGACCATTTCGAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT  
GACATCCTTCAGAGACCTCATTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG  
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCAACGAGCTGGTGGATGATCT  
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC  
GAGACCATTTCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA  
GAGGCAGATTCCAGCCAAGATGTTTCATGTAGTATTGAAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA  
ACTCAGAAGCTACCAAGACCCATCCAATGCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT  
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA  
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC  
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA  
CATCCAAATTTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG  
ACTCTTCATCGTGGATGCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA  
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTTCATCGTGCAGCGGTTAACATAACC  
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT  
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG  
TTTGTCTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA  
CAACCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5653**

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF  
RDLIHDQDEDEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF  
AGGGYRLGAAPEEESAYVAGEKQHSQDVHVVLKLWKSGLDNGELRSYQDPSNAQFLESIRRGVPAELRRL  
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSILIDESEPTTNIQI  
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESQTLKEANLLNAVIVQRLT

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**FIGURE 5654**

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG  
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG  
ATCAAGCCAAAGAAGTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG  
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT  
GCCGGGGGCCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA  
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAGAGGTACTGTT  
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCCT  
CCCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGGCCACCTCCTGGTATGAGACCTCCTATGGGT  
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT  
GGGATGCGAGGCCTTCTTTGA

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**FIGURE 5655**

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE  
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMQAPAGLAGPVRGVGGPSQQVMTPOGRGTV  
AAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP  
GMRGLL

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**FIGURE 5656**

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCTCAGTCAACATGTACTTCAGATCTTCTGGGCTTATGT  
GCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA  
AGCTGTTGGTTTGAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCTGGTCTGCAAGGACAGAGGAG  
AGAGAAACCTCAAGGGCATTCCCCAGCCCACTCCAAAGACAGTCAGCAAGTCCTAGAAAAGGCAACATGGTGGTA  
GAAACAGAGCCCAGCTCAGCCCAAAGACCAAACCTGTGCAGCTAGACAAAGGCTTGAAGGAATTAGAAACCTTG  
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG  
ACCTCTTTAGGGAAGAAGCCCTACATTTGCAGTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCTCATCAGA  
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCAGTGAGTGCAGGGCGAGGTTTTAGCCAGAAGTCCAAC  
CTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGCAGGGAGTGTGGGCAAAGCTTTAGAAGT  
AAGTCCATCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTGCAGCGAGTGTGGGCGAGGC  
TTTAGCGAGAAGTCATCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCTATGTGTGCCTGGAGTGT  
GGACGAAGCTTTTGTGATAAGTCAACCCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC  
AGGGAGTGTGGGCGAGGCTTTAGCCAGAAGTCAAGTCTCATCAACACCAGAGGACACACTTGGATGAGAAGCCT  
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCCTCATCATACAGAGCGGACGCACTCTGGA  
GAGAAGCCTTATGTGTGTGGTGAAGTGTGGCCGAGGCTTTAGTCGGAATCACTCCTCCTTGTCCACCAGAGGACA  
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC  
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCCTC  
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCAGTGAGTGTGGCCGAGGCTTTAGCCGAAA  
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT  
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACCGGAGAAACCTGTGTATGCAGGGGTCATGAAC  
AAGACCTGAGTGACCAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT  
GTGAGTGAAGTTCCAGAGATGTGTGCAGCCCTTATCAGGCATGGGAGGGACACGTTCAAGGAGAGGAGCCTTATGAG  
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA  
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC  
ACCTTTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA  
GGTCTTTGTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC  
TGTGGAGCTCTGCCAGATGACCTTTTCAGGGGTAAACCCCAAGCTGCTTGAGAGAACAGTGTGTGTGCTGGCAG  
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA  
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCTTGACTCAACGGGGACAACCTCCAGAAGGTCAATCCAGATC  
CAGAGATCCCCATCGAACTGAAGGATCACTGGGTGTCAGACACATTGCAGGTCACTTCTTCTCTGCCAGTCC  
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG  
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTCACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT  
TCTGCATGTGTGGGGAGAATGGACAAGGACTTAGGAAAAAGTCTCATCAAAGAACAGCTTTTTTGGGACAAGCT  
TTACATGGGTGGGGAGGGAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC  
ACTCAGGGAGAAGACCTCTGTGGGCAGGGCTTGTGGGTGGAGCTTCATCCCGATGTCACTCCTCACTGACTTAG  
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACTCTGAGGGATTTTCAGGAAATGTCTTGACTCCCC  
ATGTACTCTGTATGTGAGCGAAGATGGCAGTAAGTGTAAATAAGCATTTCTTCTACTTCTTGAATCAGATGA  
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAA

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**FIGURE 5657**

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFITNPRTLLGKKPYICSDCGRSFKDRST  
LIRHHRIHSMEKPYVCSECGRGFSQKSNLSRHQORTHSEKPYLCRECGQSFRSKSILNRHQWTHSEKPYVCSEC  
GRGFSEKSSFIRHQRTSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQRTSLD  
EKPYVCRECGRGFCDKSTLIHERTHSGEKPYVCGEGRGFSRKSLLLVHQRTSGEKHYVCRECRRGFSQKSNL  
IRHQRTSNEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLLVHQRTSGEKHYVCRECG  
RGFSHKSNLIRHQRTS

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**FIGURE 5658**

GATGAGGGTCTGCGGGGCCGCCAAAGGAGCCACGGATCTCACCACCTGCGGCTGCAGCAGACTGATCTCCTCC  
ACTTCCTTCAGCGCCAGCAGCGCTAGCCGACCGCTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC  
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCCGGAACCCGTTCACAGGGCAGGCGCAGGCGCAGGCGCAGG  
CCCAGGCCCAGGCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCCGAAACCCACCGTCGCGTCGCCCCGCGCCCC  
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTCGGCTCGCAATGCGGCTAGCGCGCTCCGGCGCGCGGAAC  
CAGGCTCCAGAGGCCACGCCCCGCCCCCGACCAATCGGAGGCCGGGACGACACCATCTCCGGCCTTTGGAG  
GGGCGCCCCAGGGTGGTATCGCCCCGAGCGGGGCTGGGTGGTGCCGAGCGCGGGCGAGCGGGCCTTTTCGGCC  
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCCGGGGACGCGCGCCCCCGGTGCGGCACTGCAGGCGCGGAAACGAC  
TTGGGAAGGCCCTTTTCGGGGTAATAGTCCGGTTCCTGATGTTCTTGTCATATGAGTTACGGGCAGCAGAGCTGGG  
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGGGCGTCCATCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG  
CTTCGTCCGTGGCCTCGGGCCCCAGACCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCCGTCCCTACTCGG  
GGACGAGCTCCCCGGCGCCGGGTGGGCGGTGCATCCTTTCTCCACCCGTAACGGGAGCGGTGCCTGGCGCGC  
TCTGGCGCAGACCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTGTTT  
TTGGTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACGTGCGAAAGAAAGACGCTCCAGCGTCTTCCTAGGCC  
AGTTTTCTTGTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTGTGCTCCTCCGCTTGGGCGGCC  
CTGAATTCGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCTTGAGGGCGTCTTTGGGCACT  
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATTAACGTTATAAATCCAAAACCTAGTTATACTT  
AAGTAGCGTATCCCCTGGTATGTTTTAAAGAGTCATTGCAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT  
GCATTTATACATTTAATTGTTATTTTGTTAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC  
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT  
TGAATTCGTTACACATGTCTACTTACGAGTCAGAATCGTTATTCATTTAATATTTTAAATGGAATTGCCAAG  
TTAATCCATACATTAGCATGTAAATTATTTTAACCGTCGTGAATACATCAAAATAGACGATTCCAAAATGTAAT  
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCTGGAGTTACAG  
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTTAAAAAATAGG  
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCCGAGACCAG  
CCTGGCCAAACATGGTGAAACCCGCTCTCTACCAAAAAATAAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA  
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACCTAGCCTGGGC  
AACAGAGCAAGGCTCTGTC



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**FIGURE 5659**

MSYGQQSWVKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDEGVFVPYSGTSLPGAGWAVHFFLPP  
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

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**FIGURE 5660**

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTGCGCTACGCGCTGCTGGCGC  
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCACACA  
GCATCGTTTCGTCCTGGTGGCCTTTTGTCCCTTTGCCTCATCCAGGTTGCCTTGGAATGCCAACGCCGTGTCTG  
AAGGGTTGTTTCATGAGGACCTCCGCCTGCTCTTGAGAGCCACCTGCCGTCCAAAAGAAGAAAGTACTCTTGG  
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG  
CTGAGATCCTGCGAGGAGTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTGAGCTGTAAAG  
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTAATGTGAACCGGGTGGACAAATATGATCA  
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTGAGGGAGTGGTACG  
GGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTGGAA  
ACCGAAGGGAAGTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTA  
TTCTGGATGCCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA  
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC  
CCAGCCTGTGAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG  
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA  
ACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAGGCCGCATCT  
CCCGATACCTGGCAAACAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCCACGAGTGTATTG  
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG  
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA  
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC  
CAGAGGAGTGTGAGGAGATGAGTGA AAAACCCAAAAGAAGAAAAGCAAAAGCCCCAGGAGGTTTCTCAGGAGA  
ATGGAATGGAAGACCCATCTATCTCTTCTCCAAACCCAAAGAAAAGAAATCTTTTCCAAGGAGGAGTTGATGA  
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAGAAGTCTACACCCAAGGAGGAAAACAG  
TTAATGACCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAGAGGAAATTCCTCAAAGAGGAGCCGGTCA  
GCAGTGGGCCTGAAGAGGCGGTTGCAAGAGCAGCTCCAAGAAGAAGAAAAGTTCCATAAAGCATCCCAGGAAG  
ATTAGAATGCAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTTCCACCCCTGTGCCG  
TGTTCCCAATAAAAACAAATTCACAAG

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**FIGURE 5661**

TGATACATCGTTGCTCATTTCGAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT  
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGTGGTCTCCGCCGGGAACCCTGGGGCATGGAG  
AGGTCTGAGTACCTCGGCCGCGGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT  
TCCCGTGACCATGCTTCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAGGAGGTGTTCAAGGCTGC  
CGCTGTCCAGTGGAGTTCAGGAGCACCACCTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA  
GGTGTGAGTTCCATGAAGGAGAACAAGTGGCCATCATTGGAAAGATTATACCCCGATGGAGTATAAGGGGGA  
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTGCCAACGTAGTCCATGTGAAGTCACTTCC  
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT  
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTGTAAGATTGTCACACGAGCCAAGTCTCAGCGGATTGCAAA  
GTTTCGCTTTGACTATGCCACCAAGAAGGGGCGGGCAAGGTCACTGCTGTCCACAAGGCCAACATCATGAACT  
TGGGGATGGGTGTTCCTGCAGTGCTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT  
CATAGACAACCTGCTGCATGCAGCTGGTGCAGAATCCTTACCAGTTTGATGTGCTTGTGATGCCCAATCTCTATGG  
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA  
ATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTGCCCAGGCAGTGGGCAGGAATATAGCCAATCCACGGC  
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT  
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCACAACCGACTTCATCAA  
GTCTGTATCGGTACCTGCAGACTAAAGGGAGCTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC  
CCCATAACCTTCAGTGCAGTGTAACAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCACCCCTTGCT  
GGGTAGAGCCTAGGTTGTCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGATGGGGATTGTTAGGA  
TGGAGCCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTCGAACCTCTGACATGGGTGGCTATGCTACT  
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT  
CAATAAAGAACATGAACCAAAA

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**FIGURE 5662**

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAHAASRSQAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA  
VPVEFQEHHLSEVQNMASEEKLQVLSSMKENKVAIIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKSLPG  
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG  
DGLFLQCCEEVAELYPKIKFETMIIDNCCMLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY  
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS  
VIGHLQTKGS

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**FIGURE 5663**

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTCGGCCCCGGCTCTGGGGGCGCCCAGGAAC TCG  
GTGCTGGGCCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG  
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAGAAAAAGGTCATT  
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCACTGGTGACTGCCGGGCCCCCTTGTGACCCCCACT  
CCAGCAGGGACCCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCTCCTTTGGGTCTGGAGTCCCTGCGAGTT  
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTTCAG  
TCAGGCCTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAG  
GTGGACGCTGGGCACCCACCCGCTTCTCGGGTGTATACACAGGGCAGGAAC TCTGTCTGGAGGTATGACTGG  
GTCACATCATACAAGGTCCAGTTCAGCAATGACAGTCGGACCTGGTGGGGAAGTAGGAACCACAGCAGTGGGATG  
GACGCAGTATTTCTGCCAATTCAGACCCAGAACTCCAGTGTGAACCTCCTGCCGGAGCCCCAGGTGGCCCCGC  
TTCATTGCGCTGCTGCCCCAGACCTGGCTCCAGGGAGGCGCGCCTTGCCCTCCGGGCAGAGATCCTGCGCTGCCCA  
GTCTCAGACCCCAATGACCTATTCTTGAGGCCCTGCGTCCGGGATCCTCTGACCTCTAGACTTTTCAGCATCAC  
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCAACATCACCCGCATCTACAGCATT  
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTCCGACAAGCCTGGGGAGCATGAGCTGGGGGAG  
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG  
TTCCTGTGCCATGAGTTCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTCACCTGCTG  
CCCTCCATGAACCTGATGGCTATGAGATCGCCTACCACCGGGGTTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC  
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGCTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT  
GGGAAGGTGCCCCACATCGTCCCAACCATCACCTGCCATTGCCCACTTACTACACCTGCCCAATGCCACCGTG  
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCTTTGCTGCTAAGTGCCAACCTCCACGGGGGT  
GAGCTCGTGGTGTCTACCCATTTCGACATGACTCGCACCCCGTGGGCTGCCCGCGAGCTCACGCCCACACCAGAT  
GATGCTGTGTTTCGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCC  
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG  
AATGACTTCAGTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCCTGTGACAAGTTCCCTCACGAG  
AATGAATTGCCCCAGGAGTGGGAGAACAACAAAGACGCCCTCCTACCTACCTGGAGCAGGTGCGCATGGGCATT  
GCAGGAGTGGTGGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT  
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCCAAGGGGACTACATGGTGACTGCCAGTGCC  
GAGGGCTACCATTTCAGTGACACGGAAGTGTGGGGTACCTTTGAAGAGGGCCCCCTTCCCCTGCAATTTGCTGCTC  
ACCAAGACTCCCAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGCAGGCGC  
CTGGAGCGGCTAAGGGGACAGAAGGATTGA

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**FIGURE 5664**

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVRIKVIKKKKVI  
MKKRKKLTLTRPTPLVTAGPLVTPTAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ  
SGLEDGDLYDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGM  
DAVFPANSDPETFVLNLLPEPQVARFIRLLPQTLQGGAPCLRAEILACPVSDPNDLFLEAPASGSSDPLDFQHH  
NYKAMRKLKQVQECPNITRIYSIGKSYQGLKLYMEMSDKPGHEHELGEPEVRYVAGMHGNEALGRELLLLLMQ  
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYHRGSELVGWAEGRWNNQSIDLNNFADLNTPLWEAQDD  
GKVPHIVPNHHLPLPTYYTLPNATVAPETRAVIKWMKRIPFVLSANLHGGELVVSYPFDMTRTPWAARELTPTPD  
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE  
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDTELGIADAVIAVDGINHDVTTAWGGDYWRLLTPGDYMTASA  
EGYHSVTRNCRVTFEEGFFPCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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**FIGURE 5665**

GCTGTGAGGCTCGGAGTCGCCGAGGAGCCAGTATCTGTGTGCGCCGCCCGCGCGTCCCCGGTTTGGTGCTG  
CGGCGCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGTATCCCTGGCTCTTGTGA  
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA  
AATTGCCTGGTCAAATCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAATGGCAGCTA  
CTCTCAAGTCATTAAACTTTGTAAGATACCGAGCATTTTGCAGTCCTTCTGCCCTTTGGTGCAGTCCGAAGTGTGT  
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCCTCCAGAACACATTAGCCTCTGCCATTCTGCCA  
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCTTGACAACCAGCAGTGCCACCCAGGTTTGG  
AATTCAGCAAGACTTCTTCCCTAAGGCCAGTACATTGCAGCTGGGCTCACCCAGGGCCACAGGAGTTGATGAAG  
AGGACGTAGAAGTGTGTTGATTCTTTGAAAACATGCGAGTTTTCTACAGCTAAGACCAGAATACCGTGTTCACA  
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTTCAGAAGGTGAATAATTTGCACAAAGTCAGAGTTA  
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTTCCTGTCAGAGCAGCATC  
CTGTCTTGCTGGGCAGTACCAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTTGATACCC  
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCTTTTAGGAATCCCTCACTCCCATTCATGCTAGATGTGTATG  
AGACCAAGTGTGTCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTA  
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTCTAGTTATCTTAATTTGCACCTGGAAGGATCTATCCTTGT  
CTCAGCTAGTTCACTTAATTTATGTTATAGGTGAAATCGTCAGGTATCCCAGGACCTAATGCAAAATTGGAAT  
CATTGATCCTTAAATATATAGATTGATCAATTTGGAGGAGGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA  
GTACTAATCTCTCTGAATTTGTCAATGCGGAAAATTGGAGACTTGGCTTGTGCTAACATTCAGCATCTGAGTAGTC  
GCTCCTTAGTGAAATATTGTTAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTTCATGAAGCAGATTGGAG  
AGATAGCTCCTCAGCGAATTCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCCTTAC  
GCTTCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCCTCCTAGAGTGGCACACTGTGCAAGTAAAG  
ATGTTGCCAAGATTCTGTGGTCATTGGAACCTCTGAATTATAAGCCACCCAATGCAGAAGAATTTTACTCCAGCC  
TGATAAGTGAGATTACAGAAAGATGCCTGAATTAACCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC  
TGGCATTTTTGGAGTACTTTCCAGTAGAGTTAATTGATTTCGCTCTCAGTCCAGGGTTTGTGAGTTAGCTCAGG  
AGAGAACTAAGTTTGACCTCCTTAAGGAACATATACCCCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA  
GAGGCAATCGTCTTAGTACTACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA  
ATTCAAAGCCTGAATTCTTAGAACTGTCTTTTTACTGGAGACCATGCTGGGGGGGCCCCAGTACGTCAAGCACC  
ATATGATTTTGCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA  
ATAGAGAAGCCACGCCGGCTGAAAAATGTAGCCAAATTAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT  
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC  
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCTTTGCAATGTAGCAGATAAATCAGGGGCCA  
TGGAGATGGCTGGCCTGTGCCCCGAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTCAAGTTACAAACA  
GGAACCAGTATTGCTATGGCTCCAGGGATCTCCTTGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG  
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT  
TTCTTCATGAGAAAGTATTACCTCTGCTCTCTGAAGGGCATTTAGGGGCATTTCTATGGCAAAGCTATAGGTGT  
ATACTGTACCAGGTGTTGCAAAATGATTATAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG  
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAAT  
ACTGCAAAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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**FIGURE 5666**

MAATLKSLKLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH  
PGLEFSKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELILHK  
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLFDTQDLINVLKAFVILGIPHSHSML  
DVIETKCCHQVWEMNMDQLLLVADLWRYLGRKVPFLNIFSSYLNHLHWKDLSSLVHLIYVIGENRQVSQDLMQ  
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSRSSLVNIVKMFRTHTVDHINFMK  
QIGEIAQORIPSLGVQGVMHLLTYCSALRFLNEGVMNAVAASLPPRVAHCRSKDVAKILWSFGTLNYKPPNAEEF  
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFPVELIDFALSPGFVRLAQERTKFDLLKELYTLDGTVGIEC  
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP  
LPFNREATPAENVAKLRLEHVGVS LTDLMNKLLKGKARGHFQGKTESEPGQQPMELNKAAPVPLGGFLCNVADK  
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLPILKRTLE  
KLAFLEHEKVFTSAL



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**FIGURE 5667**

CCTGGCCGGAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTTCG  
GTGGCTCAGCTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAAACGGGGA  
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAGATTCTAGGAGATAAGTTTTCCATGCACCTTGGTGGCACAGAAAATTG  
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGG  
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGCCCCCTACATAAAGTGGT  
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT  
GCACGTTTGCACCTCAGCACCGGGGACCCAAGCCAGCCCCGTGCGCCTGTTTCAGGGGCCGGACCTCGGGCCGGATCG  
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCTGATGGATATGAGCAGACGTACGCAG  
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA  
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCAAACCTC  
CCGCATCGGGCAGGCACCCCTGAAGTACTTCCCTCAGGGTTTCCCTTTGTGAGGGTGTGAGTAGCCTCACC  
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGCCCTTAGGATT  
CACTGCTCTCTCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG  
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTTCTGGATGAGA  
CTTGTTTCCAAAATAAACAGCTATATCTGTTTTG

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**FIGURE 5668**

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCCGCTGCAGTGGTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC  
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC  
GTGGCAGGGAGGGCGTCCATGGCTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA  
GGCCACGATGCAGAAGGATCCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC  
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT  
CTGCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC  
GTGGTGCCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCTCAAAGAGGAG  
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC  
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC  
TGGCACGGCTTTGACTTGAGGGCCCCGAGGCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCC  
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCACGC  
CTCTCACCTCTGCCTTCATTTGTGTGCCACCCTGCCCTCCCTCGTCTCTCTCTCCACTTCCTCCTCTCTGTG  
TGCCTCAGTCTCCTGCCGGAAGAAATGGGTTGATCCGAAAGGAGGCTGTCTGAGGAAGGAGAGGGAGGGCCTG  
GGGTGGGTCCCCACTCCCCACCCAAGCCACAGGGACTCCCACCAGGGTCTGGGAGAGGACGGAGCTGGCTCTG  
TGGCGTCGTGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCCCTCCCTAGTCCCCACTGCTGTCCA  
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCCACCCTCAGGTCTGTGTTACTTGGTTTTAAAGCGACTGGT  
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 5669**

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR  
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML  
LDGVKCVGALEYDSEHSDWHGFD

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**FIGURE 5670**

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG  
AACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGCCCCCACC GTGGAA  
GTAACCAAGGGCGCTTCCTTGTGGGCAGCTGCAGGCCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG  
GGCAGAGGGGCCTGGGGCTGGGCCCAGAGTCCAGCCGTCCAGCTGCTCCTTTCCCAGTTTGATTCAATAAATCT  
GTCCACTCCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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**FIGURE 5671**

CGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG  
ATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCG  
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG  
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCCTCAAGGAGAAGGGCGCTG  
CGCATAGCCGAGGAGCTGGGCATGGACGACTTACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGCGCCAC  
GGCGTGGTGTCTGTCAGCGCGTGGCCCGCGCCGCGCGCAAACGCTGCCCCCGCACCCCGGCGGCGCTGCC  
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG  
TCGGTGGCCGAGGGCTACGCCTCGCAGGACGTGTTACGCGCCACCAGACCACTATGGTACGACTTCTGCC  
GACCAGGCCGCGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCTGAGCGTCTGCTATGC  
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCGCTGGTGGCCGGCAAGTCGGCCAAAGCCCGCGCAGGCCAAGCC  
GGCCTGCCCTGCGACTACACCGCAACTCCAAGGTGGTGTACCAACCCAGGCCCTGGCCAAGTACTTGAAGGCC  
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGTCTGCTGTTGGCCGGCCGCTTGGCTGCCAGTCTTGGAC  
ACCTCGGGCTGCGGCATGTGCAGCTGGCCTTCTCCCTCCCGGCACCGTGCATCCCTGGAGAGGGGAGTGGTC  
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA  
GGCCTGCAGTGGGTCTCACGGAGGCCCTGCCTTTGTGGCTGCCGCTGGCAGGCAGTGGAGCCTTCGGACATA  
GCCGCTGTCTTCGTGAGGCTGGCTTTGGGGGTGGCCCTAATGCCACCATCACCCTTCCCTCAAGAGTGAGGGA  
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG  
GAGGAGGAGGAGGAAGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGATGTTGAT  
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGGAGGCTGAGGACTGGGCCAGGGAGTA  
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTGGAA  
GGTGGGGAGGACTCTGATTACAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT  
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG  
AGGTACCTGACCTCCTTCCCCATTGATGACCGGTGCAGAGCCACATCCTCCACTTGAACACGATCTGGTTTCAT  
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGGACATCAAAGCTCAGTCACTGGACCTAGC  
TGTGCCCCCAACCTAGATTGGCAGCACACCCAGGGCAGAGGACTCTCTGGGCACCCGCTGTGCATGGAGCCAG  
AGTGCAGAGCCCCAGATCCTTTAGTAATGCTTCCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCCCG  
GGCTGAGGTGAGCCTCACTGCCTGCTTATTGGCTCTTTCTCAGAATCCTCTTCCCTCCCCATTTGGCCCTGGGCT  
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG  
CAGCCAGGGATGGGCCCTGGAGGTTCCCGGCCGAGAGTGCCCTCTCCCTCTGCCATCCACGTGAGGTCTTGGT  
GGGGGACCCCAAGCCATTCTGGGAAGGGCTCCAGAAGAAGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC  
CCCACCCCAACCCCAAGGCCCTTGAGAAGCACAGTTTAACTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG  
CTTTCCACCTCCCCAGTCCCTTTCTCTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTCTTTCCAGATTGGAG  
GTTTCCAAGAGGCCCCCACCCTGGAAGTAACCAAGGGCGCTTCCCTTGTGGCAGCTGCAGGCCCATGCCTCTC  
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC  
CTTTCCAGTTTGATTTCAATAAATCTGTCCACTCCCCTTTTGTGGGGTGAACGTTTTAACAGCC

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**FIGURE 5672**

MDDFTASNGWLDRFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGWRAREEQPPSVAEGYA  
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYT  
ANSKGGVTTQALAKYLKALDTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHY  
RQAMLLKAMAALLEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTSLKSEGESEEEEE  
EEEEEEEGEGEEEEEGEEEEEGGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDWAQGVVEAGGSF  
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDDDDEEDGDEVVPVSFGEAMAYFAMVKRYLTSFP  
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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**FIGURE 5673**

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC  
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC  
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC  
AAGCTCGAGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCTGCCGGTCAAGGGCATCATCCTC  
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC  
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC  
CGCGTGCAGAGCCACATCCTCCACTTGGAAACAGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGCAGGCG  
GGAGTTCGAGGTCTTGGACATCAAAGCTGA

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**FIGURE 5674**

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC  
GCCTGGCCCTGTGGCTCTTCTCCCTCCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCA  
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG  
GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG  
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCTCCTGGGGTCCCCGGTGCGGGCGGCCGCTTCTCGCCG  
GTCACCACCTCAGCCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGAGCCGCTGACGCACCTATCCCTG  
TCTCGACGGGCATCCGAATCTCCCTGTCTGCTGAATCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC  
CCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTCGA  
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC  
ATCACCAACTCCAGGCGCCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGAGCTGCCAGCAGCTCTGGGGAA  
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCCGGAAGAGGAGGGGGCATGCTGGGGTGGT  
TCCCTGGCATGTGAGGACCTCCTCTCCCATCTTGGCTGCAGGATGGATTGTCTTCAAGATGCCATGGAAGCCC  
ACACATCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGAAGCCTTTGCCAGAGACCCAGCTCG  
GCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG  
TTCTCTCTGACCCCTGCAGAGGGGATACTGAGGAAGATGATGGATTGTGGACATCCTAGAGAGTGACTTAAAG  
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTCATTAGTGCCCCACTGGTCAAGACCTTGGAAGGAAGAG  
GAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG  
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACAGCCCGTGAGAATAAGCGGAGGCGGAGCGTGACC  
CCTCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCTCCGCTCAAAATCACTGTGTACAGATGAG  
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCCTACAGACAGTA  
GACGGAAGACACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTACGCAAC  
ATCGTGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG  
AACTTGCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA  
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC  
CGTGCTGTCAACGACTACCCAGCCTTACTACCCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC  
CCTCAGACCCGAACCTTCTGTGAACCCAGGACTACCGCCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAG  
ACCTTCGCGCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGCTGCAGGACCAG  
TGAGGGGCTGCGCCAGTCCCTGCTACCTCCCTTGCCCTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCCTGCCGG  
GCTGAGGGCCTGCTGGAGGCCICAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGCTCCTGCCCTGTGCCCCAGC  
CCAGATTCCCCGTGTGTATCCCATCAFTTTCCATATCCTGGTGCCCCCACCCTGGAAGAGCCAGTCTGTTGA  
GTTAGTTAAGTTGGGTTAATAACAGCTTAAAGGCAGTATTTGTGTCTCCAGGAGCTTCTTGTTCCTTGTTAG  
GGTTAACCCCTTCACTTCTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGAGCTGAGGCTGGGGGAGAGCCGTG  
GTCCCTGAGGATGGGTGAGAGCTAACTCCTTCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGGC  
CAGGGCTGCCCCAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCTTTCTCTGT  
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCTATTTCAGTGTTACCTGTGTGCTTGGT  
CTGTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC  
TCGGTCCAGTTTTGTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCAGGGCAAGGGTTAAGGCCTGA  
ATCATGAGCCTGCTGGAAGCCAGCCCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTGTCTGCTGTC  
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCCTTGCA  
ACCCAAACCAGGTGGGAGCGTTTTGTTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCTATTTGTGTGGA  
CAAAAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTACAGAAGCAGCTAAACCAAGGACTGAGC  
ACCCTCTGGATTCTGAATCTCAAGATGGGGGAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCT  
TGGTTCAATAAAGCACTGAGCAAGTTGAG



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**FIGURE 5675**

GGGTCTGTCTCTTGCTTCAACAGTGTGTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC  
AATTTCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACCGTT  
TTTGTGTTAGCTCCTTCTTGGCGACCAACCATGAGCTCCCAGATTGCTCAAAATTATTCCACCGACGTGGAGGC  
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCTACACCTACCTCTCTCTGGGCTTCTATTTGACCG  
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG  
TCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG  
GGGTAAAACCCAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCATCTCTGTGACTTCTGGAGACTCA  
CTTCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCCC  
AGAGGCTGGGCTGGGCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA  
CTTCTGAAGGGCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTCTTA  
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCGAAGGCAAGGCCAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG  
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC  
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT  
CCCATGTGGACAAGATAAATACATTTCCAAAAATGAACCTCTCTTGCATCTGAAGACCTACAACCTGTACTATGA  
AGGCCAGAATTTACAGCTCCGGCACCGGGAGGAAGAAGACGAGTTTATTGTGGAGGGGCTCCTGAACATCTCCTG  
GGGCTGCGCCGGCCCATTCGCTGCAGATGCAGGATGACAACGAACGCATTCGACCCCTCCATCCTCCTCCTC  
CTGGCACTCTGGCTGTAACTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTC  
AGAGGTGGATGCCCCGCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA  
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGTGCGTCGCCGTGGCAATGTGAGGACGCCTAGTGA  
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACC  
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGCTCTGAAGCTGCTGTCTCAA  
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT  
GAAGGCCACCGATTACCGCTGATTGCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTCTCTAAT  
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAAGTTCGAGATGCCGTACTTAAAG  
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT  
AATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG  
GCACCCACAGGAACCGCCATTGCCATAAGACCCACAGGAAGCTAGGCACTTTCTTCCATGGAACATTTAGACA  
CAAACCTCCCGAGCTCCGGCCAAGCCATCATTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA  
TCCCTGGACCCCTGCCCTCCTTTTTCTGCTCACAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG  
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCTACCTGATACTTTCACATGTAATTAATTTCCA  
GGCAACCAGCACAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT  
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCTCTCAAGTGCCAGGGAGCAGCCACACGTCTGTCTGTGTTTAG  
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATCTCCCTGTATGCCTAGA  
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGAAA  
GAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCCACGTATTTTTTACACTGGAAACGTTGATTGTTTTAA  
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG  
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT  
TGAGTGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGGTACACAGTGTGACAGCTAGTGTGGCCAG  
GGCCTGGTGGCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC  
CTTGAACGCAGCCCATCTCATGTATCAAGGCTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC  
CATTCTTTCAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGATGAAGCCT  
CATCTTGCTACTGAGTGTGGGTTTCAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT  
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG  
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTGAGGAGG  
GAGACAGATGCTTGGACCTGGGTGCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG  
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGAGAGCTG  
GGCAGTTGAGGAAAGGACAGCCCTGGTTGGTGCCTCCAAAGGAAGGTGGACTTTTTGGTGGAGACGTTTCTGC  
CCTGGGCACCCCTCCTGCCCCGATTACATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC  
TGCAGAAAGATGGCATGCGGCCCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCTCCATAGGGACAG  
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGCCCAAGGGCTTCTGCAAGCTGCACAGAAGTGGGGTAAGAAG  
ACAAAGAGTAGCCACCGGGAGAGGCTTCTTTGTTACAGCTGGGAAAGAACAGTTCTGTGAATGCAACACCTCC  
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAATCTCTTCTGGTAATTTTTATTTTGAATGTTTCAGGGCCTTA  
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAATACTAACCCTAGCTCTT  
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTGTGATTGCACTAGCACTACGATAGTGTAGATGGGGAAA  
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG  
GGAGGTGAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTTCCACGTAATGCAGACCACACTTTT  
CCATTTTGTCTGCCCTCTTGAGAGGTCATTTCTCACGTCTTAAGAACCTGATCAGAAATTTTGAAGGGTTCTT  
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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**FIGURE 5676B**

TGCAGTTTGAACCTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG  
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC  
CACCCCCACCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT  
GGTGGAAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG  
GGGATTATCTTGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA  
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA  
AATGCTGAGGCCTCGGGTCAAGATTTTGATCTGAGACATGCTGATGCTTCAAGGAGAAAATATTTTACAATCCTC  
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCTAGAAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA  
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG  
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT  
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCAGAGAAAT  
GTGGTGTACAGATACATCGCCGAGAGAGGTTTCTTTCTTTCTTTTTTTTTTTTTTGGAGACAGAGTCTGGTTCTG  
TTTCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCTCTGGGGTTCAAGTGATTCTCCT  
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTGTGTGGTTTTAGT  
AGAGGTGGGGTTTACCATCTTGCCAGGCTGGTCTTGAACCTCCTGACCTCGTGATCCACCCGCCTAGGCCTCCC  
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA  
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT  
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT  
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAAAGAAAGCTCTGCCCTA  
TCACAAGGGGGGTGTTGAAGCGCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAAGATGCACAAGCTGTGGTG  
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT  
AATTGCTAGCGTTTCTGAAGGGTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC  
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACTTACACACTGATGCGTTTACTCATCTAACATAATC  
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT  
ACTGAAATAAAGCACTTTTCAAAGAG

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**FIGURE 5677**

MDYSHQTSLVPCGQDKYISKNEILLHLKTYNLYYEGQNLQLRHREEDEFIVEGLLNISWGLRRPIRLQMDDNE  
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSDTSRGLKPLQEDTPQLMTRSDVGVR  
RRGNVRTPSDQRRIRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAAEFALYV  
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSF IQKLQEEEDREVKK  
LMRKYTVLRLMIRQRLEEIAETPATI

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**FIGURE 5678**

GTCTCAGCCGGTCGTCGCGACGTTTCGCCCCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCTAGACTTTCTCTCC  
TTCCCGCCTGCCGTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCC  
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC  
TGCAGAGCATGGACTCGTCCCACGTCTCTTTGGTGCAGCTCACCTGCGGTCTGAGGGCTTCGACACCTACCGCT  
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGCAATGAAGATA  
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTT  
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGGAAATCCAGAACAGGAGTACAGCTGTGTAG  
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCTT  
GTGCAAAGACGGAGTGAAATTTTCTGCAAGTGAGAACTTGGAAATGGAAACATTAAATGTACAGACAAGTA  
ATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTTGCCTGAGGTACC  
TGAACCTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTG  
TAGAGTATAAAATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT  
AGGCATTCTTAAATTTCAAGAAAATAAACTAAGCTCTTTGAGAACTGCTTCTAAGATGCCAGCATATACTGAAG  
TCTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTCTGTAAATAACCTATTTTTTTCT  
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTGTC  
TCTTAGAAATACTTGTGATTTTTATAATACAAAAGGCTCTGACTCTAAATGCAGTTTTAAGAATTGTTTTTGAA  
TTTAAATAAAGTTACTTGAATTC

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**FIGURE 5679**

CCAGGAGGCACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCCTCCTGCGCCTCGCTTCTCCGGTCCAGCCGC  
CATCTTCCTTTCCGCACAGGGGCCGCCGAGCGGGGCCATGCAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGT  
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGACTCGCTGCATCAT  
TGAGGTCTCTCAAATGCCTTGTCGAAATCCAGCGCTCCACCCATCACCCCTGAGTGCCGCCAAGTCTGAAGAC  
GAGTAGAAAAGACGTCAAAGACAAAGAGACAACCTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGA  
CCCAGCTGATGCCTCGGAAGCCCACGAGTCCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA  
AGGCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA  
GTGGAGCCTCTATCCCTCCGACAGCCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA  
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACACCT  
TGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAGAGGAGTT  
AGTGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA  
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCGAAGCCAGGAAGAATC  
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCCAGACACCACCACGGGAGGAG  
CAGGCCCGACAGGTCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA  
GTCAAACGTCAGCATGGCCAGTTTAGGGGAAAAGAGGGACCACCATTCAACCCACTACAGGCTTCAGAGGAAGA  
ACCTGAATATGGAGAAGAAATAAAGGTTATCCAGGCGTCCAGGCCCCTGAGGACCTGGAGTGGGAGCGCTATAG  
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA  
CTACCCAGCTTAGAGCTTGATAAGATGGCACATGGATATGGTGAAGAAAGTGAGGAAGAGAGGGGCCTTGAGCC  
GGGAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCTATTTCATGTCTGACACCAGAGAAGAGAA  
AAGGTTCTTGGGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC  
GTGGAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA  
CCTGCAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGA  
AAAGAGGAAGAGATTAGGGGAAGTGTTCACCCATACTACGACCCTCTCCAGTGGAAGAGCAGCCATTTTGAAAG  
AAGAGACAACATGAATGACAATTTTCTCGAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT  
CCCAGAATACAACATATGACTGGTGGGAGAAAAAGCCCTTCTCTGAGGATGTGAACTGGGGGTATGAGAAGAGAAA  
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCAACTGGACCAGCTCCTTCACTA  
CAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCACCAGGAGGCAGAAAA  
TGAAAAGGACAGGGCTGACCAGACAGTCCTGACAGAGGACGAGAAAAAAGAACTCGAAAACCTGGCTGCAATGGA  
TTTGAACTACAGAAGATAGCTGAGAAATTCAGCCAAAGGGGCTGACTGTCTATTGGAGCGGTGGGCACTGTTAAG  
AAGCAGCCATCAGATGATCTGTTTTTCAACCTTCACTGAAAGACACCATTTATATACCCAAGGGCAGAAAGTAG  
AACTTACTATTCAATAATGTTTGACACAATTGGAATTGTCTTTAATTCTGTGAGAATGCTATTGAAAATGTGA  
ATTGCATGACTTGTAGCATATTCTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG  
TCTTTGAAAAATGTTTGTCTCAGTTGGAATAATAAAAGATTACCTGAGACC

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**FIGURE 5680**

MQPTLLLSILGAVGLAAVNSMPVDNRNHNHNEGMVTRCIIIEVLSNALSKSSAPPITPECRQVLKTSRKDVKDKETTE  
NENTKFEVRLLRDPADASEAHSSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSSDSQVSE  
EVKTRHSEKSQREDEEEEEGENYQKGERGEDSSEEKHEEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS  
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESSEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP  
SEEKGHPQEESSESNVSMASLGEKRDHSTHYRASEEPEYGEIIGYPGVQAPEDLEWERYRGRGSEERYRAPRP  
QSEESWDEEDKRNYPSELDKMAHGYGEESEEEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE  
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQGLQDTKENREEARFQDKQYSSHTAEKRKRLGELFNPY  
YDPLQWKSSHFERDNMNDNFLEGEENELTLNEKNFFPEYNYDWWEKKPFSEVDNWGYEKRNLARVPKLDLKRQ  
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELENLAAMDLELQKIAEKFSQ  
RG

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**FIGURE 5681**

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGCGCCGCTTGGGCTCCGGGAACGCGGCCG  
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGAACGCTGGAGG  
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCCGGGATCGGCCAGCGGAACCACTGTTCCGGCGCGGGGAAGGCG  
GCTCCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCGGCGAGCACCCCC  
AGCCTGTATGAAAACCCATGGACAATCCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC  
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT  
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA  
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTCCACTTACTTACATGATCATTTCG  
AGAGATGTAATGTTGATTGCTGCTGTTTTTATGTCAGATACCGAACTCTCCAACACCACGAACACTTGCCAAG  
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAACCAACATTTCATCAGCAAGGTGAATACAGCAGTCCAGTTA  
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT  
TTTACAGCTTTCACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA  
GACTGA



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**FIGURE 5682**

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA  
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLII EEDFNIALGVFALAGLTDLLD  
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISR DVMLIAAVFYVRYRTLPTPTLAK  
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAF TTAASAYSYYHYGRKTVQVIK  
D

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**FIGURE 5683**

GCCTGGCTCCGTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTTCGTGCGCCTTCTACC  
TCGCTGTTTCGGTTTTCCTGGCTCCTCGGCCCTTTTCTCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT  
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGATATCAGACCAAATCATACAATTTATATCAACA  
ATATGAATGACAAAATTAAAAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG  
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGGCAGGCCTTTGTCAATTTAAGGAAGTGGGCTCATCCA  
CAAATGCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT  
CGGATATAATATCAAAAATGCGTGGAACCTTTGCTGACAAAGAAAAGAAAAAGAAAAAGCCAAAACCTG  
TGGACAGACTGCAACAACCACAAAAGCCTGGCCAGGGAACCTCAAATTCAGCTAATACCCAAGGAAATT  
CAACACCAAATCCTCAGGTCCCTGATTACCCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA  
ATGAGATGATGTTATCCATGCTGTTTAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG  
ACATTGCTTTTGTGTAATTTGAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA  
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATAACATTGGGATAGTCGTCTTTAAAAGACTTGGTGT  
TATTTACAGTGTGTTTTGATAACATTTGGCTGGGTCATTTTAAATAGTTAGAGATGAGGAGGAGTAAAAGTGAA  
ATTTTTGTGAAGGACTTAAATTATCCAGTGTCTTTAGCCTTGGTGAAGTATGAAATACGAAGGCCTTAATTTT  
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5684**

MDIRPNHTIYINNNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFPFY  
GKPMRIQYAKTDSIIISKMRGTFADKEKKKEKKKAKTVEQTATTNKKPGQGTPNSANTQGNSTPNPQVPDYPPN  
YILFLNNLPEETNEMMLSMLFNQFPGFKEVRLVPGRHDIAFVEFENDGQAGAARDALQGFKITPSHAMKITYAKK



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**FIGURE 5686**

MAAVPELLQQEEDRSKLRSVSDLNVDPSLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL  
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGESEGSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRL  
SSHPVLSKDRNFHFVLEYDQDLSVRRKNTKEMFGGFFKSUVKSADEVLF TGVKEVDDFFEQKNFLINYYNRIKD  
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYMYL  
NIEAAKDLLYRRTKALIDYENS NKALDKARLKS KDVKLAEAHQECCQKFEQLSESAKEELINFKRKRVA AFRKN  
LIEMSELEIKHARNNVSLQSCIDLFKNN

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**FIGURE 5687**

GAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCCTCCTCGTGGAGCGGAGCAAGGGTAG  
GCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT  
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCTCCTGCCGCCGTGGGGCAG  
GGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCCGAGAGGCGCCAGGCGGGCGGCGGGCGGCCCGCCAGCTTCTTC  
TTTCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG  
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG  
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGCGGGAAGCACCCGTG  
AGACCCGGGCGGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCGGGGAATCCCTGTGGATGTCCGGATTCTA  
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGTTGCCGAGCGGACTTGGAGAGATGATC  
TCTGGAGACCCCGGAATGTTCTTTTTAAACTTTCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC  
TTAACATGCGACAGACCAGTTTGGTTTGTGGCCCCAAAATACCCTCCTTCCCCCACCTTTTACTGAGAAGACT  
TTTTTGGGGGGGGGGCCCAACAACCTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACCTTTAGAAAC  
GCAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTAGTAGGTGCTCAAATACTTGCTGAACTTGGTGTCTATTTT  
TAAGTCTTGCCCATTTGATGTAACTGTCCCTAGGTCACGTGTATCTTGAGGTCTAAAAGATTATTTATGCAATAA  
ATTGAAATTCCCATAGCCAATTAAAGATTCT

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**FIGURE 5688**

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCT  
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCCGGCTCCAAGATGGACGGCAGCGGGGACTG  
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG  
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCGAGAGGCGCCCAGGCGG  
CGGCGGCGGCGGCCAGCTTCTTCTTTCCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCGCCATGGCC  
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC  
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA  
TGTCCCGGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC  
TT

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**FIGURE 5689A**

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCCTCTGCGCCTCGGGCGGGCGGGAGA  
GAGAGGCCGCGGCCGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCCTCTCGGTGCTGCTGACGG  
CGGCCACAGTGGCCGGCGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA  
TTGAGAGGCAAATTCGGAAGAAAGAAAACATTCTGCTTTTGGGAGAACAGATTATTTTACTGAGCAACTTGAAG  
CAGAAAGAGAGAAGATGTTATTGGCAAAAGGATCTCAAAAATCATGACTTGAATGTGAAATATCTGTTGGACAGA  
CAACACGAGTTTGTGTGTGTGTGTGATGGAGAGTAGCTTAGTAGIATCTTCATCTTTTTTTTTTGGTCACGTGCC  
TTTTAACTTGATCAAATAAAGGACAGTGGGTCAATAAGTTACTGCTTTCAGGGTCCCTTATATCTGAATAAAG  
GAGTGTGGGCAGACACTTTTTGGAGAGTCTGTCTGGGTGATCCTGTTAGAAGCCCCATTAGGGTCACGTGCCAG  
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA  
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAACATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG  
GAGAGACGCTCCTGATCGTCAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC  
TCAACAGTGATGAAGGAGACGTGTCTTGATGGAGGAGCAGCTGTCTACTTCTGTGACAAGTGCCAAAAATGGA  
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTAGGTTTACTTGTTCGGATT  
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTATGTTGGCAATGTACA  
ACTTGTCTCTGGAAGGAAGTGGACGTCAAGGTTATTTTCAGGTGGAAAGAGATATCTGTGCTTTTATTGAGAAAC  
ATTGGACTTTTTTACTAGGGAATAGGAAAAAGACGTCTACCTGGTGGAGCACCGTGGCAGGTTGCCTCAGCGTGG  
GAAGTCCCATGTACTTCCGTTTCAGGTGCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC  
CCCCAACGATGAAACCTGAAGGAGAGAAGTTGTCTGCCTCTACTTTGAAAATAAAGCAGCCTCAAAACCAACTT  
TAGATCCCATCATTACTGTTGAGGGACTTAGAAAACGAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA  
AAGAGAAAAGGTCTCGAACTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCCGCTGGCTTTCTTGACA  
GGAGCACATCTTCTACCCCTGTAAAATTCTAAGCCGAGGCCGAGGCCAGATGTGATTCTGGAAAAAGGCCGAAG  
TGATTGACTTTTCTCTCTTGAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCCTTCTCTGGATT  
TCTCTGCCCCCTGGTACACCTGCCTCTCATTCTGCCACACCTAGCTTGCTTTCAGAAGCAGATCTGATTCCAGATG  
TGATGCCCCCACAAGCCTTGTTTCATGATGACGATGAGATGGAAGGCGATGGAGTCATAGACCCAGGGATGGAGT  
ACGTCCCACCCCTGCTGGGTCACTAGCTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC  
AGATAAAGCAGGAGGTAGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGAAGACACAGATTCAA  
ACACATCTTTGCAAAACAAGGGCTAGAGAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCA  
GGTATACTCCCGTGAGCATCTACGAGGAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCGCCGCTGCTGTTGCCA  
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACTGATTGTGACACAAGCGAAAAGGGATAGGGGATTACCACTTT  
TTGACTTGATCAAGTTGTTAATGCTGCTCTTTTGTTAGTTGACGGGATTTATGGAGCCAAAGAAGGAGGAATTT  
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGACTTCAGAATCCTTGACCGATACCAAGACTT  
CCTTGCCGTCAGGAAGGGATTTCGACACCAGACCACCAAGTTTTTGTATCGCTTGGTAGGATCAGAAGATATGG  
CTGTGGACCAGATATTGTGACCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA  
AGCCACCCAAACTGCAGCTCCTGTACAGATTCTGTTCCACCTGCACAGGAGCGACCCCTCACTGGACGCCGGAGC  
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTGTCAGGAGTTTT  
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCCAGACTTCAGTGTTGTTGTTCTTTATAAAAAAGTCA  
TCATTGCCTTTGGCTTCATGGTTCCCTGATGTGAAATACAATGAAGCTTACATTTCTGTTCTGTTCCACCCTG  
AATGGAGAAGAGCAGGGATTGCAACTTTCATGATCTATCATCTGATTACAGACCTGCATGGGCAAGGACGTAACCC  
TTCACGTCTCAGCAAGCAACCCCTGCTATGCTACTGTACCAGAAGTTGGATTCAAGACTGAAGAATATGTATTAG  
ATTTCTATGATAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT  
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTGTGGAGATCTAAAGGCAGTGATTGA  
TTTACAGGGAGCTCTAATCTCTGTGATTACATGGTCTTCAAACCTCCAACCAAGTGAGAAAAGCGGCATGCA  
GTGAAATGAGCAGTGAGCAGCCCTTAGCAAAATCGCCCTCCAGTCTTCTGGAGATGCCTTCAGCCAGCATCC  
CAGACTCCACAGTTATTTATGAATGATGTGCTGATTCTCCCTCCACCTGACAGTTTGTAAAGAGTGAAGAGCATC  
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTACATAACTTAAAGGATGAGAAAATGTGGTGTAGCTATTAA  
AGATTATGCACTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTCATAAAAGGAATCCAA  
CCCTGTGCCCGGCCATTGATGTGTTGTCATTGAATCCAGGAGGATTTCTAGGGCACTGAAGTTTTGTTGTTCTT  
TTGCTGACTTTGGTTACAGTCAGAAAAATAAACTAGATGTTTGTGCTACATGTTCTACCTGTTGTACCTATTA



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**FIGURE 5689B**

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT  
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGGAAGTGTGGGTGATGCAAGT  
AGAACCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTGCTGTGTTGTGGATGTTGGCGATAGAC  
TGTCAATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTTCTCAAATAAAAAGCTTTCT  
TTGCACAACCC

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**FIGURE 5690**

MDSSIHLSLISRHDDEATRTSTSEGLEEGEVEGETILLIVESEDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY  
FCDKCQKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE  
DICAFIEKHWTFLGNRKKSTWWSTVAGCLSVGSPMYFRSGAQEFGEPEGWWKLVHNKPPTMKPEGEKLSASTLK  
IKAASKPTLDP IITVEGLRKRASRNPVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP  
DVILEKGEVIDFSSLSSSDRTPLTSPSPSPSLDFSAPGTPASHSATP SLLSEADLIPDVMPPQALFHDDDEMEGD  
GVIDPGMEYVPPAGSVASGPVVGVRKKVVGPEQIKQEVESSEEEKPDRMDIDSEDTDSNTSLQTRAREKRKPQLE  
KDTKPKEPRYTPVSIYEEKLLLKRLEACPGAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLVDGI  
YGAKEGGISRLPAGQATYRTTCQDFRILDYQTSLSRKGFRHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP  
YIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWP GIDLSECLQYPDFS  
VVVLYKKVIIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQTCMGKDVTLHVSASNPAMLLYQKFG  
FKTEEYVLDFYDKYYPLESTECKHAFFLRLRR

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**FIGURE 5691**

ATGATGAACACAAACGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT  
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAA  
GGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAGTGTACCCAGCATGCTGTTGGCATTGTT  
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG  
ATCAGAAAAAAAAAAGAAGCCAAAGAGAAAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG  
GAACTTATCCGTATGAATTCATGGCTAA

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**FIGURE 5692**

MMNTNGKRRGTRYMF SRTFRKHGVVPLVTYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV  
SINVHTEHMKHKSRSDFLKC MRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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**FIGURE 5693**

TGGGCGCGCCTTCCGGGTGTCACCTCCAGAGGGCGCCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC  
ATCGCGGCGCCGCCCACTCGCCCCAGCCGCCGCCATGAAGGCCGTGGTGCAGCGCGTCACCCGGGCCAGCGTCA  
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC  
AGAAGGAAC TGAACACATGGTCCGAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT  
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTCAGCCAGTTTACCCTCCAGTGTGTCTGAAGGGAA  
ACAAGCCTGATTTCACCTAGCAATGCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCCTGGAGCAGCTGC  
GTAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTGAGAATGATG  
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT  
CTGTCTCCAGGCTGGAGTGCAGTGGCGCGATCTCCGTTTATTGCAAGCTCCACCTCCCGGGTTTCATGCCATTCT  
TCTGCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTGTATTTTTTT  
AGTAGAGACGGGGTTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGCCCTGGTGATCCACCCGCCCTCGGCCT  
CCCAAAGTGTGGGATTACAGGTGTGAAC TACCGCGCCCAAGTTCAGTGGTTTTTAAATGTCTTTTTT  
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTAGTTGTCACTTCTGCTTAGTCTCTCCAATCTGTGACAG  
TTCTCTAGCCTTTCTTGTCTTTTGTGACATTGATACTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT  
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT  
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGGGTATTGATTGTCTTGTACCTGTGATACCAGCCTTAT  
TACTTGGTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTCCCTTGTCTGTCTCT  
CTGGCTCATTACAGCAGACAGCTCTCTCTCAGCTTTGCAGGGAAAGAAGCCAGCAGATGGCATTGACTCTGCTT  
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCTTTCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG  
GACCAGCTACATAATTTGAGAGGCCAGTGTAATAATGAAAATGTGGGGCCCTTGTTCAAAAATATTACAAATT  
TCAAGGTGGTGACATAGAGCATAAAACGAAAGGTGGGGCCCTCTGAAGGTGGGGCTGTGTGACTGCTCGGCTG  
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTCTC  
TTGTTGGTTCTGTCTGCCTCTCACAGTCAATCCATCTTATCCCATGGGTTTTTAAATATGCCCAAATGTCTCCAAT  
TGAGAAATGCTTCCATTTCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTTCTCACCGAGGGCC  
CCAGTGACCTCACATTGCTTTATTTTCATGCCATTTTTTCAGAACACTTTTCTTGCCACTGCTGCCCACTTTTGCC  
CCTGGAAATGGCTGGAGCCTTGTTCCTCAGGACGTCACTCTCTGCGTTTTTGTCTTGCCCTCTGGCTACTCCCT  
CTGGTTTTTATTGATCATTATTCCATAGTTTTTATGTTATTATTCTGCTTTAACTCTATTTGGAGAAAAATTTAG  
TCTTTTTTTTCACTTAAATATTTTTCCGGAATGGTAGAATAGTACATTTTGCCTTTAGAATCTTCACCTTTCTT  
TCAACCAGTACCCTCTTCTTGTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTTGGGTGAGTAAGTCTCAAGAT  
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACTGGGAGTAGATTTAGGAATTCTCAGCACACACAGA  
ATAAAGGACGGTAAGTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG  
TAGATCAGAGCATCATGCTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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**FIGURE 5694**

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKIILNRVFEDESGKHWSKSVMDKQYEIL  
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP  
GTATSDPKQTDSSRSVSQAGVQWRDLRSIQAPPPGFMPFFCLSLPSSWDYRHVPPCPANFFVFF

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**FIGURE 5695**

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTTCATCCGACACC  
AGCTGCCCTCCACCATGCTGCCGAAGTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA  
AGTCGGTGCCACTTCTGCCCTGGCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAGGTTGGTGATGACAT  
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAACTAACCATTGAGAACAGACAGGCCCAGAT  
TGAGGTGGTGCCTTCTGCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA  
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT  
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCAGTCTGTGGGCTGTAATGTTGATGGCCG  
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCAGCTAGTTAAGCACAAAGGAAAAT  
ATTTCAATAAAGGATCATTGACAA

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**FIGURE 5696**

ATGAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA  
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAGGCTCAAAGAGAAC  
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG  
GCACCTACAAAGGCAGCACCTAAGCAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGAAAA  
CGCTAA



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**FIGURE 5697**

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAK  
APTKAAPKQKTVKVVKSAPQVGGR

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**FIGURE 5698**

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCTCCAGCC  
GTGTGCCGCTATGGGAGTCCCGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT  
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA  
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCCTGAAGACAAACCAGCACAAA  
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT  
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTCAAGGCATC  
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC  
TCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA  
ATGCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA  
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCCAGCCTAACCATGA  
CCCAAATACTCATCATTTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA  
CTTTACCATTATTAGAGAAGAATTCAAACCAACAAGCCAAACCATGTGGTCTTTGTAATCAGTTTGACATGA  
GGTCAAAGATTGTGAAGGTTTGCCAGAGAAAAGAAGGAAAGCATGATGAACCTGCCGATAGTCTTCCTTGTGC  
AGAAGGAGAGTTTTATCTTCTTCCGCTTAATGTTCTTCGTGAGTATTGGAAAGAGAACTCACAATGGCCAGCCT  
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT  
CCCTCATTGGCCATCGTTAGAGATTAGGGAATAATGCAATTGACCGTTTGGTTAACATATACAAAAATGTGGTACA  
CAAACCTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG  
TGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAGACGACAGAAAGAAAAAG  
AAAGAGAATGAAGAGAGATCAACCAGCTTTCCTCCTAGTGAATATTAACCTCCTCATGCCTTGGGTTCAAGAAA  
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC  
TTCGATATCTCCTAATACGAGTTTACATCTGATGGCTCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA  
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTCAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA  
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGTCGGAAGTTGTGCAGTCGTACGTTGAAGGACTTTG  
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCTCGGAAGTGGTATTATCCATTTTATTATGCACCATTTGC  
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAGAAGGTTACGAAACCGTTTAAACCACTAGAAC  
ACTTATGGGGGTTATTTCCAGCTGCAAGTGGTAATTTTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA  
TTCTAGTATAATTGACTTCTATCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT  
TGCTCTCTTGCCATTCTGGATGAGCGAAGGCTACGAGCTGCCCTAGAGAGGTATACCCAGACCTCACTCCAGA  
AGAGACCAGAAGAAACAGCCTTGGAGGTGATGTCCTTATTTGTGGGGAACATCACCCACTCCATGACTTCATTTT  
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACTATGTCAATGGGATTCAAGGAAAGTT  
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCTGTTCTATGTTAAGGGATCTGACACA  
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTTAAAGCTGTAATGCTTCC  
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAAGCC  
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT  
GCCAAGAGGCTCAGGAAGTGGCATTTCAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAAACTTATACAG  
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTTATGTCAAATATGAGGCCCCAGGATTCTGGCGAGGTCC  
TCTCCCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT  
GCAAAACCCAGAATGCAGCCTTCCAGCCAAACAGTACCAGATGCTAGCTGGGCCTGGTGGGTATCCACCCAGACG  
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAATACCCTTTGCCACCACCCTCAGGAAGATA  
CAATTGGAATTAAGCTTTTGTAAGCTTTCCCAAATCCTTTCATCATTCTACAGTTTTATGCTATTTGTGGAAAG  
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTCTTTTAACTGTGTATATTTCTAC  
TGATCTGATCTCAGTGTATGTTGCTTTCCAAAGATGATGTTGCATAATACAGTGGATCTGAATTTATTATTG  
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAACCCAGCTGTGGATTTC  
AAAACACAGTGATTTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACCTTGA  
GCTGGAACCTCAGCAAACCTAGAGTATATATTGTTTCAGTATTTCTTTGGAAACATTTTCATTAATGTACTTGTCTTA  
CAGAAATTTCTGAACCTTTAGTAAAAAAAATAAAGTTAACTTTTAAACTCAAAAAAAAAAAAAAAAAA

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**FIGURE 5699**

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDFEFDNLYLDMNGIIHPCTHPEDKPAPKNED  
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE  
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT  
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE  
FIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG  
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG  
SQVASNPRQAAYEMRMQNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKF  
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGDIADMPSDFEKGTKPFKPLEQLMG  
VFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYDLPTEETR  
RNSLGGDVLVFGKHHPLHDFILELYQTGSTPEVEVPELCHGIQKFSLDEEAILPDQIVCSPVPMRLDLTQNTV  
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG  
SGTGIYSNAAPPVITYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQ  
NAAFQPNQYQMLAGPGGYPPRRDDRGGRGQYPREGRKYLPPLPSGRYNWN

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**FIGURE 5700**

CCCCCCACTTCCAAC TACCGCCTCCGGCCTGCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG  
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTAAAAGAGGGTGGGGGTGGGGGGTGATTGCT  
GGTCGTTTGTGTGGCTGTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG  
AAGGGCACGAGCCGTCCGACTGGAGCAGCTACTATGCAGAGCCCCAGGGCTACTCCTCCGTGAGCAACATGAACG  
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTCGGCGGGCCGCCATGGGCAGCGGCTCGGGCAACA  
TGAGCGCGGGCTCCATGAACATGTCGTTCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGGATGTCCCCCG  
GCGCGGGCGCCATGGCGGGCATGGGCGGCTCGGCGGGGCGGCGCGGCTGGCGGGCATGGGGCCGCACTTGAGTC  
CCAGCCTGAGCCCGCTCGGGGGCAGGCGGCGGGGCCATGGGCGGCTGGCCCCCTACGCCAACATGAACTCCA  
TGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGGACCCCAAGACCTACAGGCGCAGCTACACGCACG  
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGA  
GCGAGATCTACCACTGGATCATGGACCTCTTCCCTTCTACCGGCAGAACAGCAGCGCTGGCAGAACTCCATCC  
GCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCCCGCAAGGGCTCCTTCT  
GGACCCTGCACCCTGACTCGGGCAACATGTTTCGAGAACGGCTGTACCTGCGCCGCCAGAAGCGCTTCAAGTGCG  
AGAAGCAGCTGGCGCTGAAGGAGGCCGAGGCGCGCGGCAGCGGCAAGAAGGCGCGCGCGGAGCCAGGCCT  
CACAGGCTCAACTCGGGGAGGCCGCGGGCCGGCCTCCGAGACTCCGGCGGGCACCGAGTCGCCTCACTCGAGCG  
CCTCCCCGTGCCAGGAGCACAAAGCGAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC  
CAGAGCCGGCGCCCTCTCCGGGCAGCAGCAGCAGCGCGCGGCCACCTGCTGGGCCCCGCCACCACCCGGGCC  
TGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCCGTTCTCCATCAACAACCTCATGT  
CCTCGGAGCAGCAGCACCACCACAGCCACCACCACCAACCCACAAAATGGACCTCAAGGCCTACGAACAGG  
TGATGCACTACCCCGGCTACGGTTCCCCCATGCCCTGGCAGCTTGGCCATGGGCCCCGTCACGAACAAAACGGGCC  
TGGACGCCTCGCCCCCTGGCCGCAGATACCTCCTACTACCAGGGGGTGTACTCCCGGCCATTATGAACTCCTCTT  
AAGAAGACGACGGCTTCAGGCCCGGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTG  
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACCCCCAA  
GACAGCAGTCTTCTTACCCGCTGCAGCCGTTCCGTCCCAAACAGAGGGCCACACAGATACCCACGTTCTATAT  
AAGGAGGAAAACGGGAAAGAATATAAAGTTAAAAAAAAGCCTCCGGTTTCCACTACTGTGTAGACTCCTGCTTCT  
TCAAGCACCTGCAGATTCTGATTTTTTTGTTGTTGTTGTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACT  
TAAAAAATAAATAATTTGTGAGTGACTCGGTGTAAACCATGTAGTTTTTAACAGAACAGAGGGTTGTACTA  
TTGTTTAAAAACAGGAAAAAATAATGTAAGGGTCTGTTGTAAATGACCAAG

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**FIGURE 5701**

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG  
AGCCCCACTTCCGGGCGGTGAGAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG  
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCAATTCGCGGTACGGGGGAGGGCGGG  
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG  
GCGGACGGGTGCGACAGCGCCGGCCCTGCGGCCGAGGTGCTCACAGACGATGATGGCCAGGCCCCGGAGGCT  
AAGGACGGCAGCTCCTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTCTCTCACCCTTCCC  
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCGCTCTTG  
CTTGGTGTCTGTCATCCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTGGACCGGAG  
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAACTTGAAAATGGTGAA  
ATAGAGACCATTGCCCGGTTTGGTTCGGGCCCTTGCAAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG  
GGTATCCGTGCAGGGCCCAATGGGACTCTCTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG  
AAACGTGAAGTGAAGTCTGCTGCTGTCTCCGAGACACCCATTGAGGGGAAGAACATGTCTTTGTGAATGATCTT  
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT  
CTGGTGATGGAGGGCACAGATGACGGGCGCTGCTGGAGTATGATACTGTGACCAGGGAAGTAAAGTTTTTATTG  
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCTGCGAAGACTTTGTCTGGTGGCAGAAACAACCATG  
GCCAGGATACGAAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTGTGGAGAACATGCCTGGA  
TTTTCCAGACAACATCCGGCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTGACCATCCGCCCTAACCCCTGGG  
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAAGGATGATTTTTAAGCTCTTTAGTCAAGAGACG  
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCTTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT  
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC  
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCCAGATAGCTGCCCCCTGCCACGCAGGCC  
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCCACAT  
GCACCTGTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCTCGAGGATGCCCGGGCCCCACCTGGGCTT  
GTCTTTCTGTTTAGAGGGAAGTGTAAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA  
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTTAGGATTTGGGAAGCTCCTTGCACTTGGAAACAGGGCTCAGGT  
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCTGCGGCCTCAAAGTTCTTCTTTAC  
TATATATAACGTGCGGTACATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCCAGGGGTG  
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAAGTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC  
TCCATAGTGTGATGAAAAGCTTGTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTTCTGTGAATAT  
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAAAGTCT  
TGTCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCTATCTTTGCTCAT  
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA  
CGATAAATCG

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**FIGURE 5702**

MSEADGLRQRRPLRPQVVTDDDGQAPEAKDGSSFSGRVFRVTFMLAVSLTVPLLGAMMLLESPIDPQPLSFKEP  
PLLLGVLHPNTKLRQAERLFENQLVGPESIAHIGDVMFTGTADGRVVKLENGEIETIARFGSGPCKTRDDEPVCG  
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD  
YLLLVMEGTDDGRLLLEYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN  
MPGFDPNIRPSSSGGYWVGMSTIRPNPGFSMLDFLSERPWIKRMIFKLFSQETVMKFVPRYSLVLELSDSGAFRR  
SLHDPDGLVATYISEVHEHDGHLYLGSFRSPFLCRLSLQAV

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**FIGURE 5703**

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGGAGCCCAAAGACCGGCTGCCGC  
CTGCTCCCCGAAAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGGGTGCATGGAATGGGCTATGTGAATG

AAAAAAGGTATCCGTTATGAACTTCCAGAAAAACGAGCTACATTTTTCAGCAGCCGAGCAGCGGTCTTGGCAA  
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG  
GGCGTGTTTATCTATGTTGCCTACATCAAGTGGCACCGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG  
GCAGCCCCGGGGGCCCCGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC  
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTACCCCGGCCCCCAGAGAA  
ACTCCACGTTAACCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTCTGCCTATGCTGATGATGTGAAAAG  
AGCGCTCAGGGAATCCGGGAACACTGAGTGTGCTAAACAGGACATTCCGTTGACTTCTGGAAGGCCACCCCT  
CTGGTCTCAAGGCCACAGCTGGCTTACGCCTGTACCTGGAGAAAAGGCCAGAACTTACTGCAGAAGGTGAAA  
GAAGTATTTAAAGCATCGCCTTTCCTTGTAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT  
TCGGCGTGGATCACCATCAACTTCTGACAGGCAGCTTGAAAACTCCAGGAGGGAGCAGCGTGGGCATGCTGGAC  
TTGGGCGGAGGATCCACTCAGATCGCCTTCTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCGGCTAC  
CTGACGGCACTGCGGATGTTTAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTCG  
GCACGCCTGGCGATCCTGGGCGGCGTGGAGGGGACGCTGCTAAGGATGGAAGGAGTTGGTCAGCCCTTGCTTG  
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTCACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC  
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT  
GTGGACTTCTATGCTTTCTCTACTATTACGACCTTGCAGCTGGTGTGGGCCTCATAGATGCGGAGAGGGGAGGC  
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTCGGACCCCTGGAGACACAGCCGACAGCAGC  
CCCTTCTCATGCATGGACCTACCTACGTACGCTGCTACTCCAGGAGTTTCGGCTTTCAGGAGCAAAAGTGCTG  
AAGCTCAGTCGGAAAATTGACAAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTCATTACATCGACTCCCTG  
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCCGTGAGCAGTGTCTGTGTGTCTGCATA  
AACCCTCCTGTCTGGACGTGACTTCATCCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTCTGCACACTGG  
CTCTGGGACTTGCAGAAGGCCGTGGTGTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT  
GGACCTGGGCCCTGCTCAATGCCACCTGTCTGCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC  
ACACIGAGGGGGCAGTGTGGCTCCCTGCCTGTCCCATCCCCATGCCCCGTCCGCGGGGCTGTGGCTGCTGTGTG  
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGAGTTTCTCCCGAGGGCAGAGCTCCCTTCTCTGCAAG  
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT  
AGGTCTGGGCGGCACCACTGGGAACCTGGAAGTGTGTTTGGCTTCTTCTTGGGTATGAATGTGTGAGTTCA  
CCCAGAGGCCTGCTCTCTCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTTCATAGACGGC  
AGGTGCCCCACCTTTTCAGGGAGTCTCCAGCATGGGCGGATGCCGGGCATGAGCTGCTGTAAACTATTGTGGCTG  
TGCTGCTTGAGTGACGTCTCTGTGCTGTGGGTGCCAAGTGCTTGTGTAGAACTGTGTTCTGAGCCCCCTTTTCT  
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCCTAGCCAGGGCCATGTCTTAGGTGC  
AGCTGTGCCACGGGTGAGCTGAGCCACAGTCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCCACCT  
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGGTGCATCCTGCTCAGTGTGGCGTCAGTGTG  
GGGCTGAGCCCCCTTGAAGTGTGACAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT  
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5704**

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT  
RAAPGARWGQQAHSPLGTAADGHEVFYGIMFDAGSTGTRVHVQFTRPPRETPTLTHETFKAVKPGLSAYADDVE  
KSAQGIRELLDVAQDIPFDWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG  
VSAWITINFLTGLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLOASPPGYLTALRMFNRTYKLYSYSYLGGLM  
SARLAILGGVEGQPAKDGKELVSPCLSPSFKGEWEHAEVTYRVSGQAAAASLHELCAARVSEVLQNRVHRTEEVK  
HVDFYAFSYYDLAAGVGLIDAEKGGSLVVGD FEIAAKYVCRTLETQPQSSPFSCMDLTYVSLLLQEFGFPRSKV  
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS



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**FIGURE 5705A**

GAGCAGCTGCACCATCCCCGGCTTCGCGTGTGCCGCGCTTCTCTCCATCTCTTTTCTCCGCTCCGCCGG  
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGCGCGGCCTGGCGGGGCTAGGCGA  
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACTTCACGCTGGTCAAGGACCGCAATGTGGCCACGCC  
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGCGCGACCACCTCGTGGGCCGCTGGATCCGCACGCAGCAGCA  
CTACTACGAGCGCGACCCCAAGCGCATTTATTATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC  
GATGGTGAACCTGGGCCTTCAGAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACTCGA  
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCCTGGGGAGGCTGGCAGCGTGTTTCTTGACTCAATGGC  
TACCTTGGGCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTAAACCAGAAGATTGTCAATGG  
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCCTGAGTATATGCT  
TCCCGTGCACTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGCTGGC  
CATGCCCTACGACACCCAGTGCCCGGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC  
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAACCTTGGCTGA  
GAACATCTCCAGGCTCTGTATCCAAATGATACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT  
CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCGCTTCAAGTCGTCCAAGTTCGGCTGCCGGGACCCTGTGAG  
AACCTGTTTCGAGACGTTCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA  
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCACGAAGAAGACCTGTGC  
ATACACCAACCACACTGTGCTGCCTGAGGCCTTGGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCGCG  
GCACCTGGAGATAATCTATGCCATCAACCAGCGGCACCTGGACCAGTGGCCGCGCTGTTTCCGCGCGATGTGGA  
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGGACTGCAAGCGGATCAACATGCCCCACCTGTGTGTGATTGG  
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAAACAGTCGGTCTTTAAGGATTTTATGA  
ACTGGAGCCAGAGAAGTTCAGAATAAGACCAATGGCATCACCCCCCGCGGTGGCTGCTGCTGTGCAACCCGGG  
GCTGGCCGATAACCATCGTGGAGAAAATTGGGGAGGAGTTCCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC  
GCTGGTCACTGACGAGGTGTTCAATCAGGGACGTGGCCAAGGTCAAACAGGAGAACAAAGCTCAAGTCTCGGCCCT  
CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA  
CAAGCGGCAGCTGCTCAATGCCTGCACGTGTCACCCTGTACAATCGAATCAAGAGAGACCCGCCCAAGGCTTT  
TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGGTTACCACATGGCCAAGCTGATCATCAAGTTGGT  
CACCTCCATCGGCGACGTGCTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTGGGAGAACTA  
CCGTGTCTCTTGGCTGAGAAAGTGATCCCGCCGCTGATCTGTGCGCAGCAGATCTCCACTGCAGGCACCGAGGC  
CTCAGGCACAGGCAACATGAAGTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA  
GATGGCCGAGGAGGCGGGGCGGAGAACCTTTCATCTTCGGCCTGCGGGTGGAGGATGTCGAGGCGCTTGGACCG  
GAAAGGTTACAATGCCAGGGAGTACTACGACCACCTGCCCGAGCTGAAGCAGGCCGTGGACCAGATCAGCAGTGG  
CTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT  
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGBAACCCCAAGGAGTGGAC  
CAAGAAGGTCAATCAGGAACATCGCCTGCTCGGGCAAGTTCTCCAGTGACCGGACCATCACGGAGTATGCACGGGA  
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC  
CTGCTGGGCTCCCCAGAACTTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTTGAGCCTCTGGAT  
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG  
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCTGCCCAGCCCTGCCTCCTGGCCATGCCGGGAGGGGTGGAT  
CCTCTAGGCATCGCCTTCACAGCCCCCTGCCCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTATGG  
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGGAAACCCGGGATGACTGAGGG  
GGACACTGGAGTGGGTGCTTGTGTCTGCTGCTCAGAGGCCCTTGGTCAGGATGAAGTTGGCTGACACAGCTTAGC  
TTGGTTTTGCTTATTCAAAAGAGAAAATAACTACACATGGAATGAAACTAGCTGAAGCCTTTTCTGTTTTAGC  
AACTGAAAATTGTACTTGGTCACTTTTGTGCTTGAGGAGGCCCATTTTCTGCCTGGCAGGGGGCAGGTCTGTGCC  
CTCCCGCTGACTCCTGCTGTGCTGCTGAGGTGCATTTCTGTTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC  
CTTTCCACCAGTGCCACAGCCTCGTCTGGAAAAAGGACCAGGGGTCCCGGAGGAACCCATTGTGTCTGTCTTGG  
ACAGCAGGCCCTGGCACTGGGAGGTGGGGGTGAGCCCTCACAGCCTTGCCCCCTCCCAAGGCTGGCAACCTGCCT  
CCCATTGCCCAAGAGAGAGGGCAGGGAAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT  
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTTCTCCCTGGCCTCCAGTGCCCCACAGGAGGATCTGCGCACG

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**FIGURE 5705B**

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC  
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCCTGACCAC  
CACTGTGCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

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**FIGURE 5706**

AGGCTACGGTTCGCGCCAGCGGCCGGCGCTATGGGGCTGAGCCGCGTGCGGGCGGTTTTCTTTGACTTGGACAAC  
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT  
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAACTCAGCAAGGAATGTTTTCATCCTTACAAT  
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA  
AAATTGGCTGAAGAATGTTATTTCTTTGGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA  
GCCATGCTTACTGAACCTCGAAAGGAGGTCCGCTACTTCTATTAACGAATGGGGACAGACAGACCCAGAGGGAG  
AAGATTGAGGCTTGTGCTGTGAGTCTATTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA  
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTCCGTGACACA  
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAAATGGAATAGTG  
CCACTGAAGTCTCTCCCGAGTCCGCATTACATGGTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA  
GACTGCAAAGTCAGTATGTCCACTTAAAGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT  
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAATAATTTTACTTATGATTTAATGG  
CCAATATTTTGAAGGTCTTCCAACCTATTGCTTCTAAGTTGTAACAACCAACCATTGAGTGGTACTTATATCT  
GAAATTCAGATTGCATGAATTCAGGTCAGTAGTATAGCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT  
GTATCTGGAGCTTTTTAAATATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT  
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTAAAAAATAGATTTTCTAAAA  
CACAGATTTATGAAAGCAAGTGAACTGGTTAATATGAAATAAGTACTAAGTCACATGCAAATCAAGGTATTATA  
TAGTGAAATTTTTCATATTTTGAAACATAAACCATAGTTTTTGCCTACTTTGGATGTATACTTTCTTTTAT  
GAACCTGATTTTTCTGTATGACATTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTCTATGGCATGTGACAGA  
TTCCTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGCTCCTTTACCGTGACATTTTCTCACCTGTGCACA  
GTGAGCCGGTAGCTTCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG  
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTCTTCTGTGG  
ATCCATAAGAGGAACATTTCTCAGTGTAGCCTAACAATGCAGCCCCAATCTGTTCTTTTTTTTTTGAATG  
GGATCTCTGTCGCCCAGGTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCTGAGCTCAAGT  
GATCTCCACCTCAGCTCCCAAGGGTGTGTGTGACTACAAGTACACACTACCACGCCAGCTAATGTGTGTTT  
TTGTAGAGATGGGATTTTGCCATGTTGCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCTCCACCTCAG  
CCTCCTAAAGTCCTAGGATTATAGGCATGAGCCACTGTGCCGGCCCCCTCATCTGATAGAAAATTAGATTTTGC  
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTTAGAGTTACCATCTGCCTTAAATTTCT  
CTGTTTTTCACATTCTTGAAATATATCATTTGTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT  
AATAATTAATGGCTACATAGCAAGGCATCGTCTTGAACCGGAGAATTTTCTTAGACTATTAGGCTAGACAGTC  
TCATGATTATACTAACCACCTGGAGTAAAGTGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT  
TAATAAATATGA

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**FIGURE 5707**

MGLSRVRAVFFDLNLTIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH  
WEEAIQETKGGGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTCLRKEVRLLLLTNGDRQTQREKIEACACQSY  
FDAVVVGGEQREEKPAPSIFYCCNLLGVQPGDCVMVGDITLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHY  
MVSSVLELPALLQSIDCKVSMST

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**FIGURE 5708**

CTTCCTGTTGCCTTAGGGGAACGTGGCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC  
GGAGCTGGAGTCGGATCCCGAACGCACCCTCGCCATGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA  
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCGCTTCCACGCCCGAGGGCATCGCGCTGGCCTACGGCAGCCT  
CCTGCTCATGGCGCTGCTGCCCATCTTCTTCGGCGCCCTGCGTCCGTACGCTGCGCCCGCGGCAAGAATGCTTC  
AGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT  
CTACCTCTTTTCAAATATTCTCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT  
CCTGGCCCTGTCCCACACCATCAGCCCCTTCATGAATAAGTTTTTCCAGCCAGCTTCCAAATCGACAGTACCA  
GCTGCTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTGACACCAAGGACCTGGT  
GTGCCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACAACCTTTTTGG  
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATCCTGCTGGGCGG  
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCCTTCGAGGCACC  
AATAAAATTGGTGTTCCTCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTGCCATGCTGGGACTTGG  
AGATGTCGTCATTCCAGGGATCTTCATTGCCCTGCTGCTGCGCTTGACATCAGCTTGAAGAAGAAATACCCACAC  
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCCCTTACCATCTTCATCATGCACATCTCAAGCA  
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCCTGCATCGGTTTTCTGTCTGCTGGTGGCGCTGGCCAAGGGAGA  
AGTGACAGAGATGTTTACGCTACGAGTCCTCGGCGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC  
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCGCA  
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGAACAGA  
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA  
GACAGATGGGGGCTGGGCCCACACAGGCGTGCACCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG  
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCCTCTGTGGCCTCTGTTTCCTTCTCCCTTTCTTGGCCCTCCTCTG  
CTCCTCCCCACACCCTGCAGGCAAAGAAACCCCACTTCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT  
GTGATTTTTAGATTTTGTATTGTGGACTGATTTTGCCTCACATTAAAACTCATCCCATGGCCAGGGCGGGCCAC  
TGTGCTCCTGGAA

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**FIGURE 5709**

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLLALLPIFFGALRSVRCARGKNASDMPETITSRDA  
ARFPIIASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK  
EEIINYEFDTKDLVCLGLSSIVGVWYLLRKHVIANNLFGLAFLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG  
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF  
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESNPKDPAAVTESKEGTEASASKGLEKK  
EK

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**FIGURE 5710**

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTTCGCTTTGCCCATTCGTTCAGCCAGTCGCC  
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA  
GACAGCGAGCGGTGCGGGCGAGGTGGTGCCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGG  
CGCCGGGGCGCGCTGCCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA  
CTCACGCCTCAAGGAGCTGGTGCCCAACCCTGCCCCAGAACCSCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT  
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCGGGGGCCGAGGGCT  
GCCGGTCCGGGCTCCGCTCAGCACCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA  
CCACTAGATCATCCTTATACCGACGGGGAAACGGAGGCCAGAGAGGGCGTGGGCGCTTGCAACACTTCCGTCCCA  
TCCTTGCGGGTACCTGGCTATGCGGGGGTGCTAAGGAGCCTGGAAAAAGCGTCCCCCGTCGTCTTCCTGGGG  
AAGGGGGCGTTGCTGCGCTCGGAGCGGCTCCCTTCCAACCGCCGGTCTCATTCTCTCGTTTTCACAGGCG  
GCATGCGTTCTGCGGACGATCGCATCTTGTCGCTGAAGCGCTCCCCCAGGGACCGGCGACCCAGCCATC  
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGATCTGAGGGAGAACAAGACC  
GATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGAGGGCGCTC  
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTATTTTTTGAAG  
CAGACATTTTAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATTACAA  
TGATCACCAGCTGAAAATATTGTTTTACAATAGTTCTGTGGGCTGTTTTTTTGTATTAAACAAATAATTTAGA  
TGGTG

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**FIGURE 5711**

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR  
LKELVPTLPQNRKVKVEILQHVIDYIRDLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEACVPADD  
RILCR



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**FIGURE 5712**

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCACCCTA  
GTCCCTTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCCAAGACAGATGCCCCAGAGCTGTT  
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGT  
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA  
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCTCCCCA  
ACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG  
TGTTTACTCAGTG

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**FIGURE 5713**

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC  
CGGGTCGCATGATCCCTCCGGCCGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC  
CCGAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG  
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG  
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCTCAG  
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT  
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC  
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG  
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGGGTACCGGCGG  
GCATTGAGTGACCTGACATCCCAGCTCCACATCAGGAGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT  
GAACTCTTCCGGGATGGGGTAACTGGGGTGCATTGTGGCTTTTTCTCTCTCGCGGGGCACTGTGCGTGGAA  
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA  
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTGTGGAATCTATGGGAACAATGCAGCAGCCGAGAGC  
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA  
CTCTTCAGTCGGAATGACAGACACTGACCATCCACTCTACCCTCCACCCCCCTTCTGCTCCACCACATCCT  
CCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC  
CAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG  
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG  
GCAGGAGGGCCCTACCTGATTGGTGCAACCTTACCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT  
GAAAGTTTTTCAGAACCTCTTCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA  
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCTTTCCCTCCATCCCTACCCCTAAGAGCCATTTAG  
GGGCCACTTTTGACTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA  
CTGGCTAGAGTCCCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG  
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCACCCTAGTCCC  
TTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG  
CCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTGAGG  
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG  
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGC  
AGATCTGTGCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC  
AGGCCTCCCTCTCTCTCTGCTCCACCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGC  
TGTACATATTTGAGACTAGTTTTTATCCTTGTGAAGATGATAIACIATTTTTTGTAAAGCGTGTCTGTATTTATG  
TGTGAGGAGCTGCTGGCTTGAGTGCGCGTGACGTGGAGAGCTGGTGGCCGGAGATTGGACGGCCTGATGCTCC  
CTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCTCCCCAACCCCC  
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTAGTAATAAAGTGTGTTA  
CTCAGTGAAAAA

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**FIGURE 5714**

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL  
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL  
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKQERFNRWFLTGMTVAGVVL  
LGSLSRK

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**FIGURE 5715**

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGAGTTTGAACGGCTGAAGTTCACCTTCCAGCCCCCTAGCGC  
CGTTTCGCCCGCTAGGCCTGGCTTCTGAGGCGGTGCGGTGCTCGGTCGCCGCTAGGCGGGGCAGGGTGCGAGC  
AGGGGCTTCGGGCCACGCTTCTCTTGCGACAGGATTTTGCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG  
TTGCGGGAGGCTGTGGCTAATAACGGTTCTTGATACATATTGCCAGACTTCAAGATTTAGAAAAGGGGTGAA  
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA  
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAGTTAAAAGCTCTT  
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT  
CATGGTTTGAGGAGAAGGCCAATTGGAGAATAAGTTACTGGGAAGAATGGAACCTGGAGGGCTTTTTCAGGGCA  
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTCACACCTTTGAAACCAGTTGACAACACTTACTACA  
AAGAGGCAGAAAAAGAAATCTTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG  
CCATATCAAGAAAACTCCAGCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTGGAACAGA  
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCTGTAATCATCGATGAAATTCTACCTCTA  
AGAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGCTCATCAAGATACTGCTGAAAAGA  
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCTTGTATGCCACCTGCAAAGCAGAAGTTTCTAA  
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG  
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTCAACCAATCAG  
TTGACTTCCACTTCCGCACAGATGAGCGAATCAACAACATCTTAAGAACCAGGAGGAATATAAGGAAGTGAAC  
TTACATCTGAACTACGAAAGCATCCTTCATCTCTGCGGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA  
ACCTGTCCCAAGGAAAGAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG  
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCTCCAAAT  
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCTGTACTGCAAACCAACACCGTGCACGGGCTGTGACCT  
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACCTG  
ATCCCAAGTACTTGAAGGTGGGCCCCTTGGCCCAAGAAACCCTGTGAACCACCCACCGAGCCTATTGGCT  
TTGATTTGAAATTGAGAAAAGAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC  
ATTCAGACCTTGCCCTACTAAGATTTTGAAGATGTTGTGGGTGTTCTGAAAAGAAGGTACTTCCAATCACCG  
TCCCAAGTCACAGCCTTTGCATTGAAGAACAGAATTCGAATGCCCAACAAAGAAGATGAGGAAGAGGACGAAC  
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCTTTTAAGCCCCAATCCCAGAGGCAAGAACTG  
TGGAATATGCCCTTTCTCGTTTGATTCTCGAGACAAGAACGTCAAGTTACAGAAGGAGAAGAAAATAAAGAAC  
TGCAGAAAGGGGAGGTGCCAAGTTCAAGGCATTCCCTTGCCTCATTTTGACACCATTAACCTGCCAGAGAAGA  
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT  
GGAAGCACAGCTGGAAGAAGAAGTGAACAGCAGAAAGAAGCAGCTTGTTTCAAGGCTCGTCCAAACACCGTCA  
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGGTTCTCTAGTTCAAG  
AACCTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG  
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAGAGGAGCTGGCCAGGCTAC  
GGAGAGAACTGGTGATAAGGCAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACAGCCTC  
TGACTGTGCTGTATCTCCAAATTTCTCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC  
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTGCTATTGGGCATGGAGAGAACCCATTC  
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATATTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT  
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCTTT  
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAAATTTAGTCTCTGTGTGACGACAGTGAATCT  
CTATTGCTATTGCCCTTACGACTCTCACCTCTCCCCACTTTTTTTAAAAATTTTAACCAGAAAAATAAGATAG  
TTAAATCCTAAGATAGAGATTAAAGTCATGGTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT  
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACAGTGAGGAA  
GAAGACTGCGTGGATTCTATGGGGAGCCTCACAGCAGCCACGAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC  
GTTCTTTCTTACTGTTGCTGATAACAACAGGGAACCGTGCAGTGTGATTTAAGACCTGGCCTGGAATAAATA  
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5716**

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK  
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPRRSLRLSAQKDLEQKEKHHVKMKAKRCATPVI  
IDEILPSKKMKVSNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPAKQKFLKSTEEQELEKSMKMQQEV  
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRDTERIKQHPKNQEYKEVNFTSELRKHPSSPARVTKG  
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK  
HRRAVTCCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTTEPIGFDLEIEKRIQERESKKKT  
EDEHFEFHSRCPCTKILEDVVGVPKPKVLPITVPKSPAFALKNRIRMPKEDDEEEDPVVIKAQPVPHYGVFPKP  
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDITINLPEKKVKNVTQIEPFCLETDRR  
GALKAQTWKHQLEELRQQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE  
KRMAEVEAQKAQQLEEARLQEEQKKEELARLRRELVHKANPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC

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**FIGURE 5717**

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCGGCCA  
GCATGCAGCAGCAGCCCTCTGCCCCGGCCTGGCGCCCCACAACCTGAGCCAACCAAGCCTCCCTACAGCTACATCG  
CCCTTATTGCTATGGCCATCCAGAGCTCACCGGGGCGAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG  
GCCGATTTCGCCTTCTACCGCCACAACCGGCCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT  
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCTGACTGCCACG  
ACATGTTTGAGCACGGCAGCTTCTACGCGCGCGCCGCCGCTTACCCGGCAGACAGGTGCTGAGGGCAGCCGGG  
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCCAGGACCCAGGAGTCCCCAACGCCACGACCCGGCA  
GGCAGTGCTCATTTCCACCAGAGCTGCCAGATCCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG  
CCAGTATGTGCCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTTCCACGCCCAAGC  
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCTCATGCCCAGCGTTTGGCTTTCCTGCCGGCTTCT  
CAGAGGCTGAGAGTTTTAATAAGGCCCTACGCCCCGTCTTGTCCCCGGAATCAGGCATCGGGAGCAGCTACCAGT  
GTCGGCTGCAGGCACTGAATTTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT  
CCCCTGCAACCACCCACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCCTGCCAACTGACCACAAGGAACCCCTGGG  
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATAACCGACGCCAG  
GAATGTTCTTCTTTGAGTAAAGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCCCTCCGGGCTGAGCCT  
GGCTCTAGGACCTGAAGAACTCTCGAAGGACCCAGCCCTGGTGAGCCAAGGACAACCACACAGAAAGCCAGGATT  
GAAGCGGTGCTCAGCCAGGCCCTGGGGCTCCGGACAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT  
TACTCTGTGGCTCTCAGGGCCAATAAGCCATGTGATGATG

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**FIGURE 5718**

MQQQPLPGPGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC  
FVKVPRDDRKPGKGSYWTLPDCHDMFEHGSFLRRRRRFTROTGAEGTRGPAKARRGPLRATSQDPGVFNATTGR  
QCSFPPELDPKGLSFGGLVGAMPASMCPATTDGRPRPPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS  
EAESFNKAPTPVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV  
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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**FIGURE 5719**

GGCACGAGGATCCCGGGGTCGCGCGAGAGCCGCAAGCGGAGTTGGTGGGCGCTATGCTATCACCCGAGGCAGAGC  
GAGTGCTGCGGTACCTTGTAGAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC  
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA  
TGGTTTGCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC  
ATCTGGATAAAGAAATAGAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTTGAGGCCCAAGGCA  
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCACTTTGAAAG  
GATGAGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCAGGGTCATGGAGGACCCAGGACCCTCCAACCTTG  
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTGAGGAATCTGGCCATGAAAACCTCTTTGTAGTG  
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG  
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA  
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTACATGGACCCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG  
AGTGGAGTGTCAATCCAGCATTCCTCTCAGAAGGGAGAGAGGTTTTCAGGCTGGTGCCATGCGATTGGAATAAAG  
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCACAGCCATCTGTGGG  
GCAGGCACACACACCTCCCGCCAGCTCCAATTTGCACTTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA  
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGCAAGTCCCTGCACCAAGGCTGGGTGAGTGGATGCGC  
CTCTTACCATATGACACGTGTCAAGATGCCCTTCCGCCCCCTCTGAAAGTGGGGCCCGCCAGCACTGCTCGTTA  
CTGTCTGCCTTCAGTGGTCTGAGGTCCCAGTATGAAGTCCCGTGAAGTCAAACTCTTATGTGTTTATTAAAGGC  
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5720**

MLSPEAERVRLRYLVEVEELAEVLADKRQIVDLDTKRNNREGLRALQKDLSEDMVCFGNMFIKMPHPETKE  
MIEKDQDHLDEIEKLKQLKVKVNRLFQAQKPELKGFNLPINQDELKALKVILKG

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**FIGURE 5721A**

CCAAGATGGCGACGGCGATGGTGAGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC  
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT  
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCTGCACTCAGGCTTGTGAAGCCCCGAGTTT  
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGGTTCCTATTCTACTTTTGGTCTCCGCC  
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAACAAGCGCCTTCTATGTGCCTGGGGT  
CGCGCCTATCAACTTCCACCAGAACGATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAAGCCAGCT  
ACCTTATGAATACTATTCACTGCCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT  
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG  
CAGCCAGTCCAACAAGCCAGTGACCCTGACAGTGGAGCAGAGCCGACTCGTGGCCGAGCGGATCACAGAAGACTA  
CTACGTCCACCTCATTGTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA  
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT  
GCACAACCACCTCTCATTATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACAGTACCGTGT  
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCGTGCACCTCT  
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACTACTCTGT  
CCACTGGGAGGAAAGTGATATCAAAATGGGCCTCTCGCTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA  
CTGGTTTTCTATCATTAACTCCGTTGTTGTGGTCTTCTTCCTGTGAGGTATCCTGAGCATGATTATCATTCCGAC  
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAAGTT  
GGTGCACGGCGACGTCTTCAGGCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT  
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTGCGCCCTCCAGCCGGGGAGCTCTCAT  
GACCACAGCTGCTTCCCTCTCATGTTCAAGGGGTGTTTGGCGGATTTTCTGTGGCCGTCTGTACCGCACTTT  
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT  
CGTATTGAATTGCTTCATTGGGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGTCTGTG  
CATGTGGTTCCGGATCTCCCTGCCCTCGTCTACTTGGGCTACTACTTCGGCTTCGAAAGCAGCCATATGACAA  
CCCTGTGCGCACCAACCAGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTTGTGGGCATCCT  
CATGGCTGGGATCTTGGCCTTCGGCGCCATGTTTCATCGAGCTCTTCTTCATCTTCAGTGCTATCTGGGAGAATCA  
GTTCTATTACCTCTTTGGCTTCCTGTTCTTGTTCATCATCCTGGTGGTATCCTGTTTCAAAATCAGCATCGT  
CATGGTGTACTTCCAGCTGTGTGTCAGAGGATTACCGCTGGTGGTGGAGAAATTTCTAGTCTCCGGGGGCTCTGC  
ATTCTACGTCTGGTTTATGCCATCTTTTATTTTCGTTAACAAGCTGGACATCGTGGAGTTCATCCCTCTCTCCT  
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA  
CATGTTTGTTCGCAAGATCTATGCTGCTGTGAAGATAGACTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC  
CTCGGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCCTGCTCGTTTGAATGTA  
ACTCCTGGCAGAGTGTTCCTGGATCCTGGGGCTGCGTGGGGGGCGGGAGGGCCTGTAGATAATCTTGGCTTTTTC  
GTCATCTTATTCCAGTTCTGTGGGGGATGAGTTTTTTTGTGGGTGCTTTTTCTTCAGTGCTAAGAAAGTTCCCT  
CCAACAGGAAGTCTCTGACCTGTTTATTAGGTGATTTCTGGTTTGGATTTTTTTTCTTCTTTGTTTAAACA  
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCCCTCAGGGCTGT  
TGGCCACCCTATGACTAACTGGAAGAGGACACGCCAGAGCTTCAGTGAGGTTTCCGAGCCTCTCCCTGCCCATCC  
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCCCTCAGTGCCAGCCAGCCTCTGCCAGACC  
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTCTCT  
TTTACCAGGAGCAAACCCAAGTCTTAGTTGCTACAAGAAAATCCCTGGAAGTACTGGGGGCCAGGTTCCCCAG  
ACAGCAGGAATTGCCCTGTTCAGAGCAGCCGGAGTTTGTGTCACCAAGGAAGAAGAGAAGAGACTTGCAGTG  
AACTGTTTTTGTGCCAAGAAACCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGTCT  
GGGAAGGGATGGCCAAGGCCGCTAGGGTCTTACCCCTCAGGATCACTCCCCAGCCCTTCTCAGGAGGTACCG  
CTCTCAAGGTGTGCTAGCAGTGGGCCCTGCCCAACTTCAGGCAGAACAGGGAGGCCCAGAGATTACAGATCCCC  
TCTGTAAAGTGGCCAGGCAATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCATACTCACTTCTTTAGCCAGCCCC  
ATCCCTCCACCCACACCTGAGTTCTTGCTCTCTCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG  
ATGGAAGGTAAAGTTCTGTCTCTTTTCCCAATCCCCAGGAATGGACAAGAAGCCAACCTAGAAAGAAGGGTCTC  
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTTCAACCTCTGCCACCCGTGCATGTCTACAAACA  
TTTGTCTTAAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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**FIGURE 5721B**

GCCCTTGTTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCTCACTG  
CCCCACATTCTCCAGTGGCTCTACCAGCCTCAGCATCAAACCAAGTGAATTTCTCAATCTTGCCTCACAGTGAC  
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG  
TCTTTTGTTCAATCAAATCTGGATTTTTTTTTTCCCTAAGAGATTCTCTTTTAGGGGGAATGGGAAACGGAC  
ACCTCATAAAGGGTTCAAAGATCATCAATTTTCTGACTTTTAAATCATTATCATTATTATTTTAATTAAAAA  
AATGCCTGTATGCCTTTTTTGGTCGGATTGTAAATAAATATACCATTGTCCT

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**FIGURE 5722**

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYSLPFCQPSKITYKAENLGEVLRGDRIVNTPFQV  
LMNSEKKCEVLCSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGY  
RLGFTDVNKIYLNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP  
TKENQLYFTYSVHWEESDIKWASRWDTYLTMSDVQIHWFISIINSVVVFFLSGILSMIIIRTLRKDIANYNKEDD  
IEDTMEESGWKL VHGDVFRPPQYPMILSSLLGSGIQLCMILIVIFVAMLCMLSPSSRGALMTTACFLFMFMGVF  
GGFSAGRLYRTLKGRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVFPPTMVALLCMWFGISLPLVYLG  
YYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFV GILMAGILPFGAMFIELFFIFSAIWENQFYLLFGFLFLVFI  
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIIFYFNKLDIVEFIPSLLYFGYTALMVLSFW  
LLTGITIGFYAAYMFVRKIYAAVKID

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**FIGURE 5723A**

ATGGCCCCACCGCCGCCACTACCGGGGCGCTGAGGGGGCCTGGCGGAGCCCGAGCGCGGCCCGGCCCGCAGCGTG  
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG  
AGCGGATGGGGAGGCTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTACCAGCGT  
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCCCAGGCCTCGGGGCCGGGA  
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTTGGGAACACCTTTCTCAAATGGGGAGAAGCTGAGGCCTCA  
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCCAAATA  
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA  
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCTTAACAAAGAGGCCCTCCACTGCTCTGAGTGCGG  
TAAGAATTACAATACGAAGCTGGGCTACCGGCCCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG  
CAAGGTGTGCTGACACCTTTGAGAGTACCCAGGCCCTGCTAGAGCACCTGAAGGCCCACTACGCCGGGTAGC  
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGCGGTTCTATACTCGTAAGGATGTACGGCG  
GCACCTAGTGGTGCACACAGGCCGTAAGGACTTCCTGTGCCAGTACTGTGCCAGCGGTTTGCCGTAAGGACCA  
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGGACATGTTAGG  
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT  
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCCATGGGCATGTATGGTGCCACATCCCTACCATGCCAGCAC  
GGGCGTGCCACACTCCCTGGTGCACAACACGCTGCCCATGGGTATGAGCTACCCCTCTGGAATCCTCACCTATCTC  
TTCCCCAGCTCAGCTCCCTCCAAAATACCAGCTTGGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGGA  
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA  
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAAGAGCCCGCCAACTCTCTGAGGCCCTCTG  
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTTCTTCCACTCAACCTGCCCCGTGTAACCCACCTGGGGC  
CACAGGAGCCTGGTCAATGGGCTACTCCCAGGCTGAGGCACAGCCCTGCTTACCCTTTGCAAGCTCAGCCTCA  
AGATTCCCCAGGAGCTGGGGGACCACTGAACCTTTGGGCCTCTGCACTCCTTGCCCTCTGTCTTACGCTCTGGCCT  
GAGTAGCACCACCTGCTCGTTTCCATCAAGCATTCCAGTAGCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC  
TCTGTTATGGAGCCTTAGTACCCACCCGCTGTGTGCCCCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA  
AAAAAAAATTCCAGTGTCTGTATACAGGAGCACTTGGTTTGGGGGTTGAGGCTCTAGGATCGATTCCAGAAGGA  
GCCTTGAGCCCCAACCCCGTGAAGAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGACC  
TGAATCGGGAGCCACACTTGGCCCTCTTCTCTCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC  
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCAAGAAGCCACCTTCTGGTCCCA  
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCACTTGGCTCCATTGCTGCTTCCAA  
CCAATGGGCAGGAGAGAAGGCCTTATTTCTCGCCACCCATTCTCTGTACCAGCACCTCCGTTTTAGTCAG  
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTACCTCCCTTGCCAAGCTGTAGCC  
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC  
TGAACCATTTGGTACCTGGTGTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTGCTGACTTCTTTCAT  
TTGAGGTACATTTTTCCCCGTTGGGAAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT  
GCATTTGTTCTGCTGCTCGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCAGGGTCT  
GCAATTCGTTTTTCTCCAAGTACATTATGACCCCTCATCCTTCTTGAAGTGGAGAGGGGAAGAAATGAAAG  
GCATGCCACGTCCTGTCACCTCCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG  
AAGCAGAGTCTGGGTTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCTCATTGGTCTTCTCCACCTGTCCC  
TTTTCCGGGAAGTTGTGGAATTGTGGAAGAAGAGTTGCAAGAGTTAGGAATGGGTAGATAGCTAAGTCCTAA  
TCTATGGGTACATTGTTGTGTCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC  
AGTGGACTCGGCCACTGTGCATAGGCTTCTGTCTCTCCATCAAACTCACTTCCACTTCTCTGTGCCCCACCCCC  
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTTCTTTCTTCTGACTCGTGGGG  
CTCCCTGCTGCAGAGACACAGCCCTTGCTGGAGCCCAGGAACCCATCCTTGCTTCATCTCAGTTCTTCATGG  
GCTTCACTCTTCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCCTTGAGACGCTTCCACTC  
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC  
TCAGTAGGTGCTCATGCTGACTTCTCCAGTAGGTTTTCAGGACAACTACCAAGGAATTGCTCAGCCTCCTAC  
CAGTCTCTCCCTACCCACCTTCTGTCTAGGTTCACTTGGTTTGTCAATCAGGAAGTGAAGGTTCCAGGACTCAGC  
TTTCTGCTTCAGCCTAAGCCAGTACTCCTTGTTTGGAGTAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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**FIGURE 5723B**

GAAGCAATTTGGAGTAAGTGTGTTTTGATTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA  
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA  
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG  
TATTATAGGTGATGGTATGTGAGAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT  
CACTAGACTCAGCAACCCTTCTCACCTTAAGTCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT  
CTGGCTGCAGAATACAAAGTCCCGGGCTGTAGAGGAGTCCTTTCTCTCTGCCTGCCCTTTCTGTCCCTCCCT  
CGAATTCTCTCTCCCGTAAGTGTGCTGGAAAAGTCATAGGACTGGCAAAGCAACTGTTTAAACCCTTTGTAAAC  
CGGGGCCTTGCCCCACCTCCTGTCTTTTCTCCTTGCCTTCCCCACTCCTGTGTCTCCCATCTATCCTGTCTTT  
CCTTTCTCTCTCAGTGTCTCAGCACCACACAAGGAATTTTCTATCACTGTGAACCTTTGCTGGTACAGAGGAA  
TAATATCTGCCTTACCTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTCTTAAACCTCCCTTCTTAAATCT  
GGGGGGTGGGGGGGAAAGAAAAAAGCCTTAGTGGCTGGTTGTTCAAAGGATAAGAATAGCTTTATCCTGCA  
CTCAGTACCCGAACCTCACTTCACTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCAGGACAGGAGC  
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGTATGTCCCTTTCCCTGCCACCTCCAGCCTCT  
GCCAGCAATGAGCTGTCCCCCTCCACCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCTGGGGGTAAGGGG  
ATGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAGGAGCGCCAATG  
AGGTTCCCTGCAACCCCGCCCTCCAGCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAATCCG  
GGAAGCAGGTGTGATTACTTTTTTGCTCGTAGATATTGCTTAAGTTGGAATTCTCCCACTGCCCTAAAACCTTC  
CCTAGTAGTCTTTAAACTCCCCCTCCCTTTTTGGTAGCTGTTTTCTCCGTCTCTCTCCACCTGCCCTCTTAT  
CTAGGAGCTGTTTGTAAAGCACGATTTTTTAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTAACAAGG  
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCACCC  
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT  
GGCGAGGGAAAAGGGTGTTCACCATGATAACCTAGTGCCTCCATAGAGGGGTTTGGAATAATCCAGTCCGATT  
CTTTGTGTGTGAGCTGACTTCCTTAGCTGATTGTTCCCACTTGACCTCTCCACCTTTGGCACTAAGAACTCCTGA  
GACACCACTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACTCCAGATTA  
TTTAAAGAGAAAAGTACAAGACAGAAATCTCTAGCACTTTGTAAACACAGTGAATAACCTCTGGAGTATTTTT  
GGCTTTATATAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTA  
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATTA AAAAC  
TTCTGAATGATG

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**FIGURE 5724**

MTTFFTSVPPWIQDAKQEEVGVKLVPRPRGREAESQVKQCEISGTPFSNGEKL RPHSLPQPEQRPYSCPQLHC  
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLG YRRHLAMHA  
ASSGDL SCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKDVRRHLVVHTGRKDFLCQYCA  
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTKAFFGMLPMGMYGA  
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA  
EPQPASPQAAAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGLVMGYSQAEAQPLL  
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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**FIGURE 5725A**

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCTCGGGCCGACATGGGCGCCGCGCGTGGGCACGGCC  
GCTGAGCGTGTCTTTCTGCTGCTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTTA  
CCTGCTCTACTGCCCTGCGATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTGCAAA  
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAAGCCTCCTTTACCAACCTCCA  
TGTGCTCTACCAGAAGTACTTCAAGCTGGAGCCCTCCAGGCTTACCATCGGGTCATCAGCTTGAGGATTTTCAT  
GGAGAAGCTGGCACCCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTGAGGTGGCAGCCAGCGAAG  
CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCCATCTTGGGATCAGTTTCATGTGAGTTT  
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCC  
AAAGGAACATCCGGTGCTTGGCTGCCAGGAGCCCCAGCCAGTTCCCCGTCCTAGAGGAACACAGGCCACTACA  
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCACCTTGTCGGGCCCTA  
TGTGGGCATTTCATCTGCGCATTGGCTCTGACTGGAAGAAGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC  
GCATTTTCATGGCCTCTCCGCAGTGTGTGGGTACAGCCGACAGCAGCGGCCCTCACGATGACTATGTGCCT  
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTGCTGGATGCCAGTCGGTCTACGTTGC  
TACTGATTCCGAGAGTTATGTGCTGAGCTCCAACAGCTCTTCAAAGGGAAGGTGAAGGTGGTGAGCCTGAAGCC  
TGAGGTGGCCAGGTGACCTGTACATCCTCGGCCAAGCCGACCACTTTATTGGCAACTGTGTCTCCTCCTTAC  
TGCTTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCCGTCTTCTTTCGGCATGGACAGGCCCTTAAGCT  
GCGGGACGAGTTCTGATTCTGGCCGGAGCACCAGACCTCTGATCCTGGAGGGACAGAGTCTGAGCTGGTCCTT  
CCAGCCAGGCCTGGCAGCCAGAGGTGCTCCGGGATTGCAAACCTCCTTCTCACCTGCCAAAGATGGAGAAGAGT  
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCAGGGCATAGGACTTGCAGGTTCTAGGAGCAGGAGCA  
TCTCCCATCGCAGTGCTTTCTGCTCTTCTGGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGCTTCTGG  
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACCTTTCAGAGAGATTTTTTATAGAGAGATTTCTATAATTTT  
GATACAAGGTGATGACTATCCTAGAACTCTCTGTGGTTTTTGAATTCATTGAATTTATTAATGTAGGTACCTA  
AAGTGACCTTAACTGAATGTGGATGAGGCTGGGGCTGGTGTGGGTCTTTTGGCTGCTTTTCAAGGTGCCCCAA  
TGTGGCCCTCAAGAGCCATCCCCACTGCCTGGCCAGAGCCATTGTTGTCCCCTACTTCTAGGCCATTTCTGGGG  
CTTGGGGGATGAATGCTGTCTGTCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGTCTGTCAGCGC  
TCTGTGGGGGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG  
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG  
CCCCAGTGGGGCTTGGTTGGTAGAATGTTGGCATTCCGTTGATATCCAAAGCCTGTTCTCCAGCCGTCTCTCTG  
CAGCTGGAGCCTTCAGGCCGATTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCACAGAAGATGCCAGGG  
CCCAGAAGCCATCAGAATTATCAGTGGAGAAGCACCTTTTGACTCTTCCCTTCCAATGTAATCTCTGCCAACACC  
ATGAGGCTTAAGGTGCTCTAAGTCATGAGTGTTTTGGTCTCAAATGCTGCAGTTTTAATAATCTGTGACTCCTGA  
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAAATTCTTGTCTGACCCCTGTAGATCTTTCTTGGCATGTCA  
CCTCCCTTGGCCTTTGATCCTGGAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCCTT  
CTTCTTGTTTTACCTGTGGGAGGAAACACTTTTTTGTGAGGGGAGCCTGGTTTACAGCTCAGAGGTCACACTG  
TATCAAAGATCTCAAACAGCAAAGTCAGCATTGCTGTATAGAGCTGCCACCAACTTAAGCAGGAGAACTGT  
ACAGAAAGGGCTTTGCTATTTTTCCCTTTTGGGAAAACAATGAAGTGTTTAAGTCCTGGGTGGACTGAGAGATG  
GTTTGCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG  
CCACCACTAGGTTGTAAGCCTGTAGCTGGCTGGCTGATTTTCAATTTTGGAAATTCATTGGCATCCACAGCCTTACA  
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC  
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC  
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA  
ATCACTTGTGTTCTGAAAGAAAGGGCACCAGAAGTTCTAGCAAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT  
TCCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA  
AGCATGTATATAAGAGCACGTTGTAAACTTGAAAGAGACAAAGGCACAAATGTGGCTGTTGATTAATTTGACTGC  
TTCTCGTTGCTCGTCACTCCATGCCAGGCAGTGTGCTGCTAATTGCTTATGGGGGCACTCTCTTATTTATTC  
CCCAGCCCTGGGAAATAGGAGCTGTCAATATCCTTCTTCTGACAAAGGAAAATTAATGCCCTGAGAATTGT  
CATAATTTTCCAAGGCTGCCAGCTGGTGGTGTTAAGCCAGAATTTGACCTCCCAGAGCCAGTTTCCATTAGCT  
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACCTTTCTACCCTGTGTGCCATGGAGACCTCCTATGGAAAAAT



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**FIGURE 5725B**

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA  
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC  
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA  
AGTCTTTGTTCTCAAGGAATTTGCATTCTAGAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG  
TGCTATAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC  
TCTCTGAAGAGCTGTCATGAAGGAGGGAGGAGCACATTCTGGCAGAGAAAACAGCACGTGCAAAGGCCCGAG  
ACTGGAGTGTGTTCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA  
GCAGGTCAGAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA  
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGCATGAGCTGATTACATTCTGAAGGACCTCTCTAGCTGGCCA  
GTGCTGAGGAGGTTGGAGAGAGAAAGGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTTAACAGGGTTGCAGGCGA  
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGCCTCCTCTCCCAAGAGACAAAGGCCATTGCATT  
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTCAGTCTTTTCAAAGATACAAATATTTA  
CATAGTTTAAATCATGTAATATATACAATTAATGTCCTAGTGTTTTACTTAATAGTGTATCATGTTTTCCCTGT  
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATCTGTGCGAGGAGTGTTCATAGTTTATTGTTTTCC  
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTTCGAGGCCGAGGTGGGCAGA  
TCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA  
TAATAATAGCCAGGCGTGGTGGCACATGCCGTGATTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA  
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA  
TCTCAAAAAAAGGAGACTTCATGTGCCCCAATTTTTCTACTATTGTTATTTGAAAAATATTTTTATTTGTAAG  
AGTTTTTCTTTATTTAAAAATGTTTCAATTAATAAAGTTGTTGGACGGGAAGCAAAAAAAGTTGTTTAAGATAA  
ATTCCCAGAAGTGAATTTGTTAGATCAAACACTTAAACTTTTTGTTATGGAAGAATTCAAATATAAATAAAAAA  
TTGTGAGTAATAAAATGAACCTCACAGTTTCAACAATGACCCAC

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**FIGURE 5726**

MGAAAWARPLSVSFLLLLLPLPGMPAGSWDPAGYLLYCPCMGFRGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH  
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP  
FWDQFHVSFNKSELF TGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMVKTGEAQ  
IHAHLVRPYVGIHLRIGSDWKNACAMLKDGTAGSHFMASPCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS  
LDAQSVYVATDSESYVPELQQLFKGKVKVSLKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF  
FGMDRPPKLRDEF

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**FIGURE 5727A**

ACCCACTCCCGCTGCCCGCTCCGGCCCGCGCCGCTTCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGAGCCCG  
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTCCGGCGAGCGGGCGCAACGCTGCC  
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCAAGTAAACCTAGCTCGGCATCGGCGCCGGAGATTCCGCGAGCCAG  
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCGACCCGCGGCTCCGCGGCCAGCCGCGCCCCAG  
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA  
GACTCGATCCTCGTCAACGGGGCCTGCAGCGACCAGTCTCTCGACTCGCCCCCAATCCTGGAGGCTATCCGCACC  
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG  
GACTTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA  
ACCAGGACTCGTTTCAAGAAAGCCAGCTGTCCGAACTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG  
CCTTCCCCACGTTCCACCCGAGGCGCGCAGGGCCGCAACCATGTGGACGAGTCCCCCGTGGAGTTCCCGGCTACC  
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCCTCCAGCTCTTACCTTACCATC  
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCGCTAGCCAG  
GACAGCCAGCAGGGGGCATGGAGTCCCGCAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTCAGAGTATCAG  
GATGGGAAGGAGTTTGAATAGGGGACCTCGTGTGGGAAAGATCAAGGGCTTCTCCTGCTGGCCCGCATGGTG  
GTGTCTTGAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG  
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTTACGCCAGCACTTTAATTTGGCCACCTTCAAT  
AAGCTCGTCTCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGGAGCTGGCAAGACCTTCCCC  
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCACGGGGGCTTCAAGCCCACT  
GGGATCGAGGGCCTCAAACCCAAACAACACGCAACCAGTGGTTAATAAGTGAAGTGGCTCGTGCAGGCAGTAGG  
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTAGCCACCTCTGACTACTGC  
CCCGCACCCAAAGCGCCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA  
CAAATGGCTTCAGATGTTGCCAAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGTGGCAGGAAAAACCCC  
GTGTCTTCCACCTCTCTTTGAGGGGGGGCTCTGTGACATGCGGGGATCGCTTCTTGTAGCTGTTTACATG  
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTGCAGCAACAG  
AGCTGCTGCCGTGTTTCTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGGCCGAGGCCAAGCTT  
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTGCGGCCCGGAAGGACTGGAAC  
GTGCGCTGCAAGCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCCAAGCTGTACCTTGCCATTCCC  
GCAGCCCGAAGCGGCCCATTCGAGTCTGTCTATGTTTATGATGGCATCGCGACAGGCTACCTAGTCTCTCAAAGAG  
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC  
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCAAAAGAAAAATATTGAAGAATGGGGCCCATTTGAC  
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA  
GGCCGGCTCTTCTTGAATTTTACCACCTGCTGAATTACTACGCCCCAAGGAGGGTGATGACCGGCCGTTCTTC  
TGGATGTTTGAAGATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTACGGTTCTTGAGTGTAAATCCA  
GTGATGATTGATGCCATCAAAGTTTCTGCTGCTCACAGGGCCCGATACTTCTGGGGCAACCTACCCGGGATGAAC  
AGGCCCCGTGATAGCATCAAAGATGATAAACTCGAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAAGTTA  
AAGAAAGTACAGACAATAACCACCAAGTCGAACTCGATCAAACAGGGGAAAAACCACTTTTCCCTGTTGTCATG  
AATGGCAAAGAAGATGTTTTGTGGTGCAGTGAAGTCTGAAAGGATCTTTGGCTTTTCTGTGCACTACACAGCGTG  
TCCAACATGGGCGGTGGTGGCCGCCAGAAGCTGCTGGGAAGGTCTTGAGCGTGCCTGTCTATCCGACACCTCTTC  
GCCCCCTCTGAAGGACTACTTTGCATGTGAATAGTTCAGCCAGGCCCCAAGCCACTGGGGGTGTGTGGCAGAGCC  
AGGACCCAGGAGGTGTGATTCTTGAAGGCATCCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTCTATACCGTGTA  
CCTCAGTTCCCTCTTGCTCAGTGGGGCAGAGCCACCTGACTCTTGAGGGGTAGCCTGAGGTGCCGCTCCTTG  
TGCACAAATCAGACCTGGCTGCTGGAGCAGCCTAACACGGTGTCTATTTTTTCTTCTCTCTAAACTTTAAACT  
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCTGGGTCTACCACTCAGAGAAACAATGGCTAAGATAC  
CAAAACCACAGTGCCGACAGCTCTCCAATACTCAGGTAAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG  
TTTAATTTTTGAAAAGTGGCTACTGCTCTGTGTTTACAGACGTGTGAGTGTAGGCATGTAGCTACAGGACATT  
TTTAAGGGCCCAGGATCGTTTTTTCCAGGGCAAGCAGAAGAGAAAAATGTTGTATATGTCTTTTACCCGGCACAT  
TCCCCTTGCTTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTCA  
GCAGGGATGACGTCATCATCATCATTAGGGCTATTTTTTCCCCCAAAACCAAGGGCAGGGGCCACTCTTAGCT

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**FIGURE 5727B**

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC  
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG  
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCCTCCACAGGCACAGGTCCCCAGATGA  
GAAGTCTGCTACCCTCATTCTCATCTTTTACTAAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT  
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAACGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA  
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTTCAGAAATGCTGT  
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT  
TGIGGGGCTTTTTATACACTTTTTAAATCTCAAACCTTCTATTTTATGTTTAACGTTTTTCATTAAAATTTTTT  
TGIAACTGGAGCCACGACGTAACAAATATGGGGAAAAAACTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG  
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAAAATCAGTATTTGTCT

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**FIGURE 5728**

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGTTCTGCCGAGAGCCGAAGATGGCAGTGAA  
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA  
GTTGAATCTGACAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTCAGTTTATGGACATGCTGTTCCCTGG  
CTCCATTGCCCTGAAGAAAGTGAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAATACTACA  
AGCAGGTTTTAAGAGAATGGGTGTTGACAAAATAATTCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA  
TTTTGAATTCGTTTCAGTGGTTCAAGAAGTTTTTCGATGCAAACTATGATGGAAAAGACTATGACCCTGTGGCTGC  
CAGACAAGGTCAAGAACTGCAGTGGCTCCTTCCCTTGTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC  
TTCTAGCAGTGCAGCTCCCCAGAGGCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT  
GGTGCGAAAGAACCTGGTGTGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA  
ACTTACTGTTGAAGACTTGGAGAAAGAGAGGGATTCTACTTCGGAAGCTACGGAACATTGAATTGATTGGCA  
GGAGAACGAGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGT  
GATACCTGATGAAGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA  
TTCTTCACTCCAAATCATGTGCTTAACTGTAAAATACTCCCTTTTGTATCCTTAGAGGACTCACTGGTTCTTT  
TCATAAGCAAAAAGTACCTCTTCTTAAAGTGCACCTTGCAGACGTTTCACTCCTTTTCCAATAAGTTGAGTTAG  
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTCACCTGGAAAACAGAGAGGCTGACCGTGGGG  
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG  
AGAAATGTAAAGACTGAATTGAATTTTAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA  
GTATTTAAATATGCTTCCACATTTCAAATATAAAATGTAACATGACAAGAGATTTTGCCTTTGACATTGTGTC  
TGGGAAGGAAGGGCCAGACCTTGAACCTTTGGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCTCA  
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAGTTGCCCTGTAAAGTTATTTGGTGTCAATTGACCAATTG  
CATCCCAGCTAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTACGCCCTGAGATGTTACAGTT  
GAAGAGCTTGGTTTTTCATTGAGCATTTCTCTATTTTCCAGTTATCCCCGAAATTTCTATGTATTATATTTTTG  
GGGAAGTGAGGTGTGCCAGTTTTTAAATCTAACAACACTACTTTGGGGACTTGCCACATCTCTGGGATTGAAAT  
GGGGATTGTATCCCATTTTACTGTCTTTTAGGTTTACATTTACCACGTTTCTCTTCTGCTCCCCITGCCACT  
GGGGACTCCTCTTTGGCTCCTTGAAGTTTGTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG  
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT  
TTTCGGTATCTGCTGTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACATAATCTCTTTGGAGATAA  
AATTCATTAGTGTGTTACTAAATGTTAATTTTCTTTGCGGAAAATACAGTACCGTGTCTGAATTAATTATTAAT  
ATTTAAAATACTTCATTCTTAACCTCTCCCTCATTGCTTTGCCACAGCCTATTCAGTTCCTTTGTTTGGCAGG  
ATTCTGCAAAATGTGTCTCACCCTACTGAGATTGTTTCAGCCCCGATGTATTTGTATTGATTGTTTCTGGTG  
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG  
AATTCAGAGGAAAACCCAGATTCAGTGATTAACAATGCCAAAAATGCAAGTAAGTCCATTGTTCAAATGACA  
GTGGTGTCTATTCTCTTTTGTGGCCTTTTAGACTTTTGTGCCCCAAAATTCATTTTATTGGGAACCCATTTTC  
CACCTGGTCTTCTTGACAGGTTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATCTGTATTTCAAGAG

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**FIGURE 5729**

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCAGGTCTGGCATCCTGCACTTGCTGCCCTCTGACACCTGGGAA  
GATGGCGCGCCCGTGGACCTTCACCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC  
CACTGCAGTTCTCATCCTCGGCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC  
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGTGGGCAG  
CCTGGTGAACACCGTCCTGAAGCACGTCTCTGGCTGAAGGTCTATCACAGCTAACATCCTCCAGCTGCAGGTGAA  
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCTTGGT  
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCAAAGCCACCATCCGCATGGACACCAGTGCAAGTGGCCC  
CACCCGCTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCTGCGCATCCAAGTCTGCATAAGCTCTCCTT  
CCTGGTGAACGCCTTAGCTAAGCAGGTCTGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGAAAAACCAGCT  
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT  
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTAGCTCTACCTGGGGGC  
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT  
GGACAACATCCCGTTCAGCCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA  
AGAATTCATGGTCTGTGGACTCTGTGCTTCCTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA  
TGAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTTAT  
AGACCAAGGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTCCTCCAGTGAAGCCCTCCGCCCTTT  
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA  
TAACATCAGCTCTGATCGGATCCAGCTGATGAACCTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT  
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCCAGTGTCAAT  
GGTGAAGGCCTTGGGATTCGAGGCAGCTGAGTCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCCTCCTT  
GTGGAAACCCACCTCTCCTGTCTCCAGTGAAGACTTGATGGCAGCCATCAGGGAAGGCTGGGTCCCAGCTGGG  
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAAA  
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5730**

MAGPWTFLLCGLLAATLIQATLSPTAVLILGPKVIEKLTQELKDHNATSILQQPLLSAMREKPA GGIPVLGS  
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIIVEFHMTTEAQATIRMDTSASGP  
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL  
SIDRLEFDLLYPAIKGDTIQLYLGAKLLDSQGKVTWFNNSAASLTMP TLDNIPFSLIVSQDVVKA AAVAVLSPE  
EFMVLLDSVLPESAHR LKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFPSS EALRPL  
FTLGIEASSEAQFYTKGDQLILNLNNISSDRIQLMNSGIGWFQPDVLKNIITEIIHSILLPNQNGKLRS GVPVSL  
VKALGFEEAESSLSKDALVLT PASLWKPTSPVSQ

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**FIGURE 5731**

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGCTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC  
GGGCTCCCGTGGACGAGGACCGCCTGTCCCCGCTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT  
TCTCCGGCCTCCTCCCTGAGGAGTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG  
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT  
TGGAGGGACCAGGGTTTCCAGAGATGCTCACCTTGCTCTGTCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCC  
CAGCCTGTTTGGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC  
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACAG  
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG  
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT  
AATGCACTTTTCGGCCCTTTTGCTCTGGGGGTCCCACAAGGCCAGGGCAGTGCCTGCTCCAGAATCTGGTGCT  
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT  
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG  
GGAGGAGGGGTGTGGGGTTGATACCCCACTCCCTCTACCCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC  
TGCCCCATACTGAAGGAAGTGAAGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA  
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT  
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC  
CCAGACCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCTCCAATCTGCA  
CTTTGATTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG  
GTTTTGGGACTCTGTTGGGAACATTTCCGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCATTCTCCACTTC  
CCTTCTCCCTGTCCGTGCCCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTTGGT  
CCTAACTCAAAGCAGATCCAGTAAAGGTTTTTGTGT



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**FIGURE 5732**

MALAGAPAGGPCAPALEALLGAGALRLDSSQIVIIISAAQDASAPPAPTGPAAPAAGPCDPDLLLFATPQAPRET  
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEEKSRYETSLNLTTRFLELLSHSADGV  
VDLNWAAEVLKVQKRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN  
ICTTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSNFQISLKSQGPIDVFLCPE  
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLS  
PLVAADSLLEHVREDFSGLLPEEFISLSPHEALDYHFGLEEGERDLDLDCDFGDLTPLDF

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**FIGURE 5733**

CGCGCGAGCGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA  
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGCGAGCCGCCCTTTTCCTCCCTCCCTTACGTCCCCGAGT  
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG  
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT  
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG  
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG  
TTCTGTGCACAAGGGCTATGCCCTTGTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA  
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT  
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG  
GCTCTTCGACTACCGGGGCCGTGTGCGCCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC  
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTACCAACCAG  
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT  
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA  
TGGAGGTGGCGCGGCGGCGGCGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG  
CAGCAGCCGCGCCACCAGCCCCCAAGAGAACAACAATTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG  
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA  
TGATGGGGCCTTGCAAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC  
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCCAGCGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC  
CCCAACGCATCCCAGCCAGTGCCATGTCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC  
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCTCCCCAGGACACTCCCA  
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCCAA  
AAAAAAAAAAAAA

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**FIGURE 5734**

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG  
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGCTCTGGGGACGAGATGATTTTTGATCCTACTA  
TGAGCAAGAAGAAAAAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC  
AGCCTTCAGAAAACAAAAGAAGTGGAGCCAGAGCCAACTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA  
GGAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAGAAAAAGAAGAAAAAACTAAAA  
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG  
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCGATGAGG  
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTCAAGTAATC  
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA  
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCGAG  
TAGGAACCAAGAAAACTTCTTTTGCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAACATCTCC  
TTGCATTTTTGTTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT  
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTCACACATGCCGATCAC  
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCAGAACTTGTCATTCTAGATGTTCTGTTG  
CCAGTATCAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACAATTTGCTA  
ATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTGCCATCAGAGTGGATATACCGTTGTAT  
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC  
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTT  
AAAATCGTTCATAGACTTCTGTAAATGCAAGATAAATTAAGTTATTATAACAGTGATTCCTTCA

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**FIGURE 5735**

MSGDEMIFDPTMSKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF  
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKNVKFPDEDEILEKDEALEDED  
NKKDDGISFSNQTGPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI  
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL  
QCETCHSRCSVASIKTGFAVTGKRAQLRAKAN

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**FIGURE 5736**

CTGAGGCCAGCCCCCTTCGCCCCGTTTCCATCACGAGTGCCGCCAGCATGCTGACAACTGCCCTACAAAGTCG  
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA  
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA  
CGGCCGTCTCATTGAGACCTCGTCACCTTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC  
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT  
ACCTGTGGTGCATTGAGCAGACCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC  
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG  
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA  
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA  
TGATTGCCGGAAGGTAGCGGTGGTAGCAGGCTATGGTGTATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT  
TCGGAGCCCGCTCATCATCACCAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA  
CCACCATGGATGAGGCCTGTCAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCTTGGCC  
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACTTGGACACTTTGACGTGGAGATCGATGTCAAGT  
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC  
GCATCATCTCTGCTGGCCGAGGGTTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTCGTGATGAGTA  
ACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTCAAT  
TCCTGCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA  
CTGAGAAGCAAGCCAGTACCTGGGCATGTCTGTGATGGCCCCCTTCAAGCCGATCACTACCGCTACTTGAGAGC  
CAGGTCTGCGTTTACCCTCCAGCTGCTGTCTTGGCCAGGCCCCACCTCTCTCCCTAAGAGCTAATGGCACCA  
ACTTTGTGACTGGTTTGTGAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG  
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC  
CACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT  
GGAGTCACAAAGCCCATGTGTTTTGCCATCTAGGCCTTCACCTGGTCTGTGGACTTATACCTGTGTGCTTGGTTT  
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGCTATATTGAAGGGCAAAGAGGAACTGTTGTTTG  
AATTTTCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC  
CTGTTTACAGGGGTTAGAATAGACTGTAAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAG  
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTTCGTGAAATCTGCCACCACCTTTATAACCAGATGGTTTCCTTTCA  
CAACCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAATCT  
TGGTGCCCTGG

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**FIGURE 5737**

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ  
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI  
RGISEETTTGVHNLYKMMANGILKVPAINVNSVTKSKFDNLYGCRESLIDGIKRATDVMIAGKVAVVAGYGDVG  
KGCAQALRGFGARVITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG  
HFDVEIDVKWLNENAVEKVNIKPQVDRLKNGRRIILLAEGRLVNLGCAMGHP SFVMSNSFTNQVMAQIELWTH  
PDKYPVGVHFLPKKLDEAVAEHLGKLVNKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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**FIGURE 5738**

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTGGGATGCCACCAACTGGGGGAGCCTCTTGCAGGATAA  
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA  
GGAGCCCACTTCCCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT  
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTCAGCCAGAACGCTGCCTTCCCTGGA  
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCATAA  
AGAGGGCATTGCCCAGACTGTGTTCCCTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC  
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCTGGCCTCCCGGACCCAGCTGT  
GCACCGACATGTTCTCAGTGTCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCAGCAAGGG  
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA  
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG  
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTGTGGATGGCCAGGAAATTGC  
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA  
GAGGTACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG  
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG  
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT  
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA  
GGACAGTGAGGAGAGGGCCCTCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG  
GCCTGGCAGCCCTGCCCCGAGTGGTCCAGTGCATTTAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA  
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC  
AGCGGGAGTGGCAGTCTGGACAACCCATACCCTGTGTAGAGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG  
TATTTGTCACTTCTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTTATGGAAGGGTAAA  
TACTGGTACCTTCCCCAGCTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCC  
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCCACTCC  
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG  
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTGT

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**FIGURE 5739**

MATNWGSLLODKQQLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYPFTLFP SLVPSALLEQAYAVQMDFNLL  
VDAVSQNAAFLEQTLSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSYMFQRSADGSPALKQIEINTISA  
SFGGLASRTPAVHRHVLSVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN  
ELLARNIHVIRRTFEDISEKGLDQDRRLFVDGQEIADVYFRDGYMPRQYSLQNWEARLLERSHAAKCPDIATQ  
LAGTKKVQQLSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEGDQIAEALAAPS RFVLKPQREGGGNNLY  
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQKTLVMNKHVGHLLR  
TKAIEHADGGVAAGVAVLDNPYPV



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**FIGURE 5740**

GGAAGAACCCGCGAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC  
GAGCTCTATGCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC  
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA  
CAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG  
TTTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATCCAAAGAGTGGT  
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTGAAACAAACATTCGAGTGGT  
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG  
GCCTCTCTGAGAATGGCTGAGGAGGCGGGCCGAAAACCTCTCCAGCCTTTCAGACCCCACTGGCATGCCATA  
TGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT  
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTTGAAGATGTGGCCAGAGTGGCTTTGAT  
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC  
CCAGGACGCGAGGCATCGGGGCTGGCGTGGACTCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA  
TAAGAAGCTCATGGCCATGTTCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT  
GTGGGTTTCAATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTGGAGGCCTACTGGCCTGGTCTTCA  
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCACTACTACACTGTATGGAAGCAGTTTGGGGG  
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGCCCAGAACT  
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCTAGAACTCGGAAGAGATGCTGTGGA  
ATCCATTGAAAAAATCAGCAAGGTGGAGTGGGATTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA  
CCGATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA  
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGGTACATCTT  
CAACACAGAAGCTCACCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT  
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGCAATTTTCAGAAAAACACTGTTAGTTCGGG  
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC  
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTCACCTCCAAGTTGGCATTACTGGGACAGGT  
TTTCTAGACTCCTCATAAACCACTGGATAATTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT  
TTTGGCTATC

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**FIGURE 5741**

MPFRLLIPLGLLCALLPQHHGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFFDELRLTCDGHDTWGSFS  
LTLIDALDLLLLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKKAGVEVEAGWPCSGPL  
LRMAEEAARKLLPAFQPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRL  
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLVV  
QMYKGTVMSPVFQSLEAYWPGLSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIE  
SAMYLYRATGDPPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDNRMESFFLAETVKYLYLLFDPTNFIHNN  
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCRSKFQKNTVSSGPW  
EPPARPGTIFSPENHDQARERKPAKQKVPLLSQPSQFPTSKLALLGQVFLDSS

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**FIGURE 5742**

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC  
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC  
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC  
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC  
CGACCAGGAGCTGCAACACATTGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC  
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA  
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG  
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCT  
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG  
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC  
CCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTGAGTCACCTTCCAAGTTGT  
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG  
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCTTTTCCACCTGTGCTTATCGCCTGGATCT  
ATCATTACTGCAAAAACCTGCTCTGTTGTGTGGCTGGCAGGCCCTGTGGCTGTGGCTGAGGGTCTGCTGTCC  
TGTGCCACCCATTAAAGTGCAGTTCCTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5743**

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRRHGLLPNN  
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTENDYVALVHPDLDRTEEILADVLKVEVFRQTVADQVLVGS  
YCVFSNQGGLVHPKTSIEDQDELSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN  
EAQPSTIATSMRDSLIDSLT

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**FIGURE 5744A**

CGTTCGGGCAGCGGCCTCTTGTTACCCGGGGCCCGCTTGCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC  
AGTCGGCGCCGAAGGAGAGCTTCCCGACCCTCGTGTCCAGTAGCCGCAATCCCAGGCTGGGAGGGTGAGGCGCCG  
CGCTCTGCCGCCCCCCCCCGCCCTCGCTCCCTGTGTCTTGGCGGATTTGCACGTAATCTATCCGAAAGCCAGTCC  
CACCCGCCACCCGACTCTGGAGCTCCCATTCTTCAGGACCCTGCTGAAGTATCGCTTCTCAGCCGCCTTCTCCAG  
GCGCAGCTGCATTGCTTCTCGGTTTTTGCACTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG  
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGCTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA  
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTGGAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG  
AGCTTCATTGAACTCAACAGAGCCAACATTTATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG  
TTAGAGACCCTGCTGGGCGTGAACACCCTCTGGCTACCTAGGGACCTGTGGGCCCTACCACCTGGTGCCCTCATGG  
AGACAAGAAGCCCTGGGTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC  
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAACTCCAGGAGGCCAGCAGAGAC  
AAGCAACCCTTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC  
TAGAAGCCACTGGAGGACCAATCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC  
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG  
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGA AAAACTGACAGTGGACTGGAGCCGGGCCGGGATGAGC  
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTCCGC  
TTCTCAGTCTATGGCGGGAGGTGTGACATTCCGACGCCACTTCTTGAAATGAAGTCAGCTACTGACAGAGATC  
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGGTCTCTGTTGACCTGTTGTCTGCGCTGACTGTGGGAG  
CACAGTCTCGGGAACCCAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA  
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG  
AGAAGGCTGAACCTTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT  
ATGAAAAGATGATAAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG  
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA  
TGGTGGAGAAGGGGACAAATAGCCCAAGGCTCTGGTCATGAGAATCTTTGGAATTGGACTCTAGTATCTTCT  
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCGTTTCAGTGCTGACTCGGAGACGCCAGGCTG  
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACCTGTTGCAACAGCAGCATGATCAGTGGG  
AGGAAGAGGGCAAAGCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG  
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC  
AGCAGCTGGAGGTGCTAGAGCAGGAGGCATGGCGCTGCGAAGGGTAAATGTGGAGCTTCAGTGCAGGGGGACT  
CTGCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA  
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAACGTATCACTCTTCGGGAAGCCCTGGAGTCAA  
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA  
TTGCAGAGCTGTGAGTTCTGAAAACACCCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGTCA  
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGTGAACCCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC  
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGCGAGAAATGCTTTGCAGGTGACCTGGCGGAGGCAGAGA  
AGAGGAGGGAAGCCCTGTGGGAAAAGAACACTCACCTGGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG  
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAGAGAAGGAAGAAATTCAAAAGAACTAAGTGAGTCACGTACC  
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG  
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC  
GGCAGGACCTCGCTGAACAACACTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC  
AACAAACAAATTTCTGTGATAGAGGTACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG  
AAGTAATCCAAGGGGAAGTGAGGTGCCGTGAAGCTGGAACCTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG  
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCCTTGGAGCAGCAGAAGGCAGCCCATG  
AGAAAGAGGTGAACCAAGCTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC  
TGGAGAGCTTAGAAAGGGAAAAAATGGAGCTGGAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC  
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAAAACAGAGAAGGAGA  
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACAACCTGGAACGACTGA  
GGCAGGACATGAAAGTCCAGAAATTAAGGAGCAGGAGACCCTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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**FIGURE 5744B**

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC  
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCC'CAGA  
GGCTGGTGGAGCAGGAGGTTTCAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTCAGAAGGAGCTGGAGA  
GAGAGAAAGCCAGCCTGACTCTGTCACTGATGGAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA  
TTCGACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC  
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG  
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC  
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGAGAGCAGCAGCCCGGGAACAGGCC  
AGGCCAGGCCAGCTGGCCAGCCTTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCCTG  
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT  
TTAAGAGAGGGGCCCTGCTGACTGCTCTCTCCGTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC  
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG  
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT  
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAATACATGAACTATGGCATCCTTACAGA  
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA  
ACCTGACAGCCCAGGTGGAACACCTGCAAGCAGCTGTCTGTAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC  
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG  
CCCAGGCTCTGCAAGAGCAGGGCGAACTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA  
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAACTGGAGAAGCAACGGG  
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG  
AACAGATTCAAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCCATGGCCGTCCAGGAGCGAGAGCAGA  
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGAGCATC  
AGCTTCTAGAACTTGAGAAGAAAGACCAAATGATTGAGTCCCAGAGAGGACAGGTTTCAGGACCTGAAAAAGCAGT  
TGTTACTCTGGAATGCCTGGCCCTGGAAGTGGAGGAAAACCATCACAAGATGGAGTGCCAGCAAAAAGTATCA  
AGGAGCTGGAGGGCCAGAGGGAAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC  
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCGTTCTTGCAAGAGAGCTGCAGG  
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG  
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTAGGTTCTCGAGGATCAGAGGACCCGGC  
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGAGAGAGCGAGGCCGGGAGCTGACCACTC  
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA  
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTGTCAGCAGGAGCATATCCATGAACTCCAGGAGCTCA  
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCTGTCCAGCGAG  
AGCAGGAAATAGTGGTCTCTGCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC  
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCCAGAGGGACCAGGAACTGGAGGCTCTGCAGCAAGAACAGC  
AGCAGGCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCATA  
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG  
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG  
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA  
GCTGGCTGCAGGCCAGGCAGTGCTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCAGTCCT  
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGAAGGCTCATGCTGCCC  
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAAATTGAGCCGAGTCTGGAGGCCAGCACTGCAACCCTGC  
AAGCCTCCCTGGATGCCTGCCAGGCACACAGTCGGCAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC  
AGGACCAGGATCTCCGATACCAGGAGGATGTGCAGCAGCTGCAGCAGGCACTTGCCCAGAGGGATGAAGAGCTGA  
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAGAGA  
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCTTCATCAGAGTGTAAAGGAGCTACAGCTGA  
CTCTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC  
ACAGCCACAAAACCTCCCAATGGAGGAACAATCTCTAAAACCTTGATTCTTTAGAGCCAGGCTGCAGCGGGAGC  
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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**FIGURE 5744C**

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTGACAGTCTGCAGGAGGTAGCCATGTTCTACAAGCCTCTGTCC  
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC  
TACACAGCCCAGGTGCAACCAGCACAGCAGAAGTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT  
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC  
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC  
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCAGGCAGGGTCCCTAGAGATCAGCA  
AGGCCACGGCTTCTTACCCACACAGCAGGATGGGAGAGGACAGAAGAAGTCTAGATGCCAAGTGTGTGGCTGAAC  
TGCAGAAAGAGGTGGTCCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT  
CAGCACAGACCAGCCGTGAGCTAGCAGGCCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCAGGCC  
CTGAGGCCACTGTCTGGAGGCAGAGACCCGAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC  
CAGTCTCTGCTACACCCAGCCCCAGCACTACCCAAGCCGCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC  
AGAAGACTGTGTGTCATGGGTGATGGCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG  
CACCCAGGAGCCCCAGGTCGGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCACT  
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCTTGCCCTGGCTGAG  
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCTAGCACTTCACCACCTCCTTCATCTTCTCCTCAACAAT  
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAA

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**FIGURE 5745**

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTTCGATGCCTACCCCAAGACT  
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTTCAGTGGCCTTCTCATGCTGCTACTG  
TTCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT  
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG  
GCCGGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC  
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCTGATCGC  
TGTGAGAGCTGCTATGGTGTGAGGCAGAAGATATCAAGTGTCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT  
CGCCGTAGAGGCTGGGCCTTCAAGAAGCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG  
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAAGTCAATAAGGTGGCCGGAACCTTCCACTTT  
GCCCCTGGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGCCTTGACAACATCAAC  
ATGACCCACTACATCCAGCACCTGTCATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT  
GTCCTGCGCCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGGCCACTGTGTACATGAAGGTGGAC  
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA  
GGCCTTCCCGGAGTCTTCGTCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTC  
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTCGCTCATC  
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTAGTCACCCTCGGTGCTTCTCTG  
TCTCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTGAGCCCCAGCCCC  
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 5746**

MEALGKLGKQFDAYPKTLEDFRVKTCGGATVTIVSGLLMLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL  
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKDGIPVSSEAERHELKGVEVTVFDPSLDPDRCESCYGAEA  
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEQKNEGCQVYGFLEVNVAGNFHFAPGKSFQQS  
HVVHVDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVVP TVYMKVDGEVLR TNQF  
SVTRHEKVANGLLGDQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK  
KIDLGKTT

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**FIGURE 5747**

ACCAGGCAAATATTCCATTACAGCATTACAAAGATGGATGTTCTTCAGTTCCTAGAAAGGAATCCCAGTGGATGAAA  
ATGCTGTACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATG  
ATGCACATGGCCCACTGCGTGACCTTGGTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGC  
TCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA  
CGGGTGCGGAACCTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG  
CTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG  
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG  
CGGGGGACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC  
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCAC  
CTGGTGTACAGATCTGAGGTCTCAAGAACAACCTGAACCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCAT  
TTCTGTGGTGGGAACCCACAGCACCCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTACATGATCTC  
ATCGGTACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG  
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAACTATCCGTGTCAAGATTGTGCGGGTAGAAACAGAGTACTCC  
TTTCTGGACTATGTGATGGGAGGCTGTGAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGAC  
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG  
GGCAGCGTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTGGGGCCAGGTTCCTCCCTGAC  
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTG  
GATGCCTACCGCCAAGCCCTGCCCAAGTTCCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG  
GCCAGGTTTGCAGCCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT  
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTGAGTGATCATTGTG  
GGTGTGGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACACGTCTGGG  
CAGGCTGCTGCCCGGACATTGTGCAGTTTGTACCCTACCGCCGTTCCAGAATGCCCTCGGGAGGCATTGGCA  
CAGACCGTGTGCGAGAAGTGCCACACAACCTGCTCTACACTTCAGGGCCAGGTTGGGCCCCGCTCAAGCCA  
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCAAGGCCTAGGTTCCCTTGGAGGCTGTGGCAAGTCTCAA  
TCCTGTGTCCAGAGGTCCCTXTGGGCCACAACCAACCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT  
TTGATACTTTTATACTTGTCTTTTGTGCTCTTGTATCCACCTTTGCTCCTGACAACCCTCATTCATAAA  
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5748**

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGWAELGRTERVRNCSSPEFSKTLQLEYRFETVQKLR  
FGIYDIDNKTPELRDDDFLGGAECSLGQIVSSQVLTLPMLKPGKPAGRGTTITVSAQELKDNRVVTMEVEARNLD  
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFSVPVQHFCGGNPSTPIQVQCSDYDSGSHDLIG  
TFHTSLAQLQAVPAEFECIHPEKQQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINF TVGVDF TGSNGDPS  
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSDKLFPAFGFGAQVPPDWQVSHEFALNFNPSNPYCAGIQGIVDA  
YRQALPQVRLYGPTNFAPIINHVARFAAQAAHQGTASQYFMLLLTDGAVTDVEATREAVVRASNLPMSV IIVGV  
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQONAPREALAQTVLAEVPTQLVSYFRAQGWAPLKPLP  
PSAKDPAQAPQA

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**FIGURE 5749**

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG  
CCCTTGGGCCCCTTCCCAGCCTACCGCTTCCGTCCCCGCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC  
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT  
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG  
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTGGCACATTTCAT  
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT  
GTACTAATAAAAGAAAGTCTTTGAGT

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**FIGURE 5750**

GGACGCAGAGAAGCCAGAGACTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT  
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCGGAAACGTCTCCCTGCTC  
ACCCACCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGGCGGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT  
TCGAGCTCAGCCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCTCACCGCCTGCCCCTGAGCCTTCC  
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGCCCTGGAGCTGCCTCTC  
GGGCCCCGACCCGTGAGCGTAGCGCCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCGGCTCTAGA  
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC  
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG  
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCCGAGGCGGCTCGGGCCCGGCGGATCCGCCGCCGCACGGATGTGCGC  
ATCACTGGCTGAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC  
GGGGGCCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTTGGCAGCGCCAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAA

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**FIGURE 5751**

MAATEPILAAATGSPAAPPEKLEGAGSSSAPERNCVGSSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELP  
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFQFRYQDAAGPREAFRLRELSRQWLRPDIRTKEQIVEM  
LVQEQLLAILPEAARARRIRRRTDVRITG

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**FIGURE 5752**

CTTTTTCCTTTCCTGATTCCCTTGTGTATGTGTGGCTGGGCCGCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT  
TGAAGTAGGCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCCTGA  
GAAGCCGTCGCCAGAGTTACGTGCGGTTTTCTTAACTTTAGAGCCTGGGGGCCGAGACCCTGATTGCACTCGA  
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCACCCACCACT  
GGCCCCATGGCTGCCGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC  
CTGAACATGCCCAAGGGAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTCGGGCCCAAGTTCCGGGGCGTG  
AAGATGATCCCTCCAGGCATCCACTTCCCTCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT  
CGTATGGGTTTTCTTCCCTTAGCCTGCACCAGCGGGGGCTGACAGTGCTGCGCTGGAGCACACTCAGGGAAGAGGTA  
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTTCTGGGG  
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTCACTCACTTTCATCAGCGAAGCCACAGTGGAGAAGCTA  
CAGCCCGAGAATCGACAGATCTGTGCCTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC  
GTGGGGCAGAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCGGCTACCAGAGATG  
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT  
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC  
CAGGATGTGCTTGGTGAATCCAGTTTGTCTTTGTGTGCTTCTGCTGGGGAATGTGTACGAGGCATTTGAGCAT  
TGGAAGCGGCTCCTGAACCTCCTGTGCCGCTCAGAAGCAGCCATGATGAAGCACCACACCTCTACATCAACCTC  
ATCTCCATCCTGTACCACAGCTTGGTGAGATCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAACCTC  
CTCACCAGCACCTTACAGGTTTTCTTTTCTCTGCTGCAGATTGCCGTGGATGCCACCCTGAGAAAGAAAGCT  
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTGCCCCGGTG  
GTGGTGAGCTCCCTGAGGGCATCGAGATGGGCTAACTCGGGGAGCGCTCTCAGCTGCGAGGGGCCCTTCCCAC  
AGGGCTGCAGTCTTGGCCTCTCCATTTACTTCTTCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC  
TGCAAAGATGGAGCCAGAAATCCCTTTTTCTACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC  
TGAAGGCACATTTGTGGGTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTTACACAGGCTCTTACA  
CACACACGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAAG  
TCCAAGAAAGAACTGATTGCTTGTTCATAGGAGCTTAGGAAACAAGAAACCTGGATTGCCAGGGGGTCTGAG  
AAGTTGGTTGGTGACTTTTTTTGCGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCCCTGCCTCTT  
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA  
GCTGGATTCAATCTAGCAGGTGGTCAGCTTTCAGCTTCTCCATCGAAATCCCATTTCTCTGTCCAGAGGCCAGT  
GGGTCTCTCCCAAGGTGGGTGTGGACCTGGCCTCAGAGGCCCTTGCTGGTGCTGTACCTCCACCTGTTCCAT  
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCCCTTCTCACCAGAGCCACCGTGACTGTTTCTGATGACCTGGAG  
AGTCAACAACAACCAGAAAGGTTTTCTGCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTTGTGCCTTCCAAG  
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCAGTCCCGCTGTGGAGCTGTGAGTCACCGGAGTAATGAGCTC  
CTGGTTCTCGGGAGTCTTTCGTGCTGTGTGGCAGGGTTCTCTCTAGACAAGTACACAGGCCCTGCCACCCTGA  
CATCAAAGTGTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA  
ATGAGAATCCCTGCTGGTTGAGACTTTTGTCTCCACTTGTTTCTTGGAGATGTTTTTCCAAGAGCATAATGTAC  
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5753**

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPKFRGVKMIPPGIHFLHYSSVDKANPKEVGPRM  
GFFLSLHQRLTVLRWSTLREEVDLSPAPSEVEAMRANLQELDQFLGPYPYATLKKWISLTNFISEATVEKLQP  
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGLARLPPEMKPRAGTEIRFSELPTQMFPEGATPAEI  
TKHSMDSLVALETVLNKQFPSSPDVLGELQFAFVCFLGNVYEAFEHWKRLNLLCRSEAAMMKHHTLYINLIS  
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSIIVDATLRKKAKEFQAHLTKKFRWDFAAEPEDCAPVVV  
ELPEGIEMG



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**FIGURE 5754**

GGAAGCCCCACCCACCAGAAGCCAAGATGTCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC  
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAAGTCCAGATCCAGGAGTTTAAGGAGGCTTCAACATGATTG  
ACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCACAG  
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGCCCATCAACTTCACCATGTTCTCACCATGTTTGGGG  
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT  
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA  
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG  
CCAAGGATAAAGACGACTAGGCCACCCAGCCCCCTGACACCCAGCCCCGCCAGTCACCCCTCCCCGCACACA  
CCCGTCCATACCAGCTCCCTGCCCATGACCCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCCA  
GTGGAAGAAACAGGCCAGGAGAAGTGCGTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC  
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA  
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC  
CCTGAGTCCTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGTCCCTCTCAGT  
CCCCTTCCCTACACCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA  
GGAGTCGCGGGCAGCGTGGACATCTGTCCCAGAGGGGCGAGAATCTCCAATAGAGGACTGAGCACT

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**FIGURE 5755**

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLEGMMS  
EAPGPINFMTMFLTMFGEKLNIGTDPEDVIRNAFACFDEEASGFIHEDHLRELLTMGDRFTDEEVDEMYREAPIDK  
KGNFNYVEFTRILKHGAKDKDD

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**FIGURE 5756**

GC GGGGGG TGGGCG CAGCTCG TCGCGCTCCG CACAAAGTTTGT TTTCTCCCTCCGGGCGGGTGGGGGAGGGCGCA  
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGT CAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGT CAGGCCGAG  
TGTCAGGCCGGGCAGGTTTACCCAAGGTCCAGCCTAGCCCCTAGGCACCATGT CGGACAGTGATCTAGGTGAGGA  
CGAAGGCCTCCTCTCCCTGGCGGGCAAAGGAAGCGCAGGGGGAACCTGCCCAAGGAGTCGGTGAAGATCCTCCG  
GGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA  
CCTGT CAGTGCTGCAAATATGTA ACTGGTT CATCAATGCCCGCGCGCGGCTTCTCCAGACATGCTTCGGAAGGA  
TGGCAAAGACCCTAATCAGTTTACCATTTC CGCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAG  
CAGCCCCTCAGTGCTGGCTGTGTCTGTCCAGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT  
TCACTCAGGCCAGGGGGAAGCCAGCAGCCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCTGGTGAC  
CCCTGGTAGCACACTTACTCTGTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACACGCCACC  
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC  
TGCTGAGATGGAGCTTCAGAAGCAGCAGGACCCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTGA  
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTGGTTCC  
CTTTCATACAGAGGGTTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG  
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGCTGACTCTGCCGTTTCTCCAGGCCTC  
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGTCTGCTTCTGCTGCTTCTCCAGAAATCCCTG  
GGACACCTTTGTTCCAGCCTGGTTTCTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCCTATGTTGGGTCCA  
AGCTGCCCTGTGCTGTTTCTGTCAAGCCAGGTGTGGACATTCCAAGTTCATATGCGTGAACAAAAGAAAAGAGG  
AACCCAGTGGATGTAACAGAACCGACTCCAGTTGAATGTTTAGATTTTGTCTAACTGTTTTCTTTTTCCCTTTT  
TTGCTGTGGTTTGCAATTCACGCAGTAGTTAGCCAGGTGTGGGAACGAGAGTGCAGTGCATGATAGCGTTCTG  
GTGAGCTGGGAAGGACCCACCACTGCCACTGAGGATTGTTTTGGAAGAAAGGAATATTTTTATCTTGGGGACCAG  
CTAAGTCTCTGCAGTAGTGTGAAATTCAAATGGTTGTTTTATCATTGGTTTGGTTTACCAAAAAAAGGCAGGG  
AAAAA AAAAAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCCGCAGGCACAGAAGGGTAGAAAGCCACAGCAG  
GGGGCAGTCCAGCAGACTCTGACTCAACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAGGTGTTTGGTT  
TTTCTTTTAAATTTTATTGTAGTTTTTTTGGGTGGGTGGGGGAAGTAACTAGACTGAAGCGATGGATTTTTTTT  
TTCTTTTTTTTCTTTAGTGTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTCAGTTTTGAATCTTTT  
AGCAACTTGGATTAGAGGGGCCCATATGT CAGAAGCTCCCAGCACCTCCTACTTGGGAGAAAAGTGAGCCATCTG  
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTCCACAATGGTGGCAGGAACTTTGGGGAAAGCAGGAATGGT  
GTCCACTGCTGCGGAGGAAGTGCCTTCAGAGAAGGTGGGGCTGGAAAAGGGTTAGAAGCCTCCTAGCTGGGATTG  
TCTTTGTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC  
TCCTCCCTTTCCCCCATTTTTCTTTTGCTGTTTTGTTTTTGTGTTTTGTTTTGTTTTGTTTTGAGACA  
GAGTCATGCTGTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCTCCCGGGTTC  
AAGCAATTATTTGCCTCAGCCTCCCAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG  
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGGAACTCCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG  
CTGTTTCATTGCTGACAGTGTTCACAATATGCCCATCTTTATATATCCTAAGAAACACTAATCCTAGGTTATT  
GCTAGCCAAATATTTTTGTCTGAGTAGTGTCACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTT  
CTGAAATCACCAGGT CAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAACTTGGGTGGGTGGATCTAGCCAG  
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCA ACTTCTG  
AGTCGCCCATCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGGCA  
AGTTTCTGCGCTCTCTGTGTTGCCTCCCTCTGGCTTCTCTCTCCCGTGCCCTCTCCCGTGTGCCCCAGGGGGA  
TCAGGGATCCTCACCCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA  
TTTGCCAGCCTCTTCCATCCCAGCCCTGT CAGTGAGCCAGGTCTGGTGCAACTGCTGCAGGATGCCTGTAGTA  
GGGA ACTCTGGAAGTGTATTGGGCTGAGGTGGGATTTTCCCTCCCCACAGTGCAGTGCAGCAATGGAGGGTGGTGA  
GGGAGCCATGCTGCTGAATTCTGGTTGGCATTTCCTCATATGTA AAAATGGGTGTGGGTAGGGCAGACTCTGC  
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCACAGTTGTCCCATGTAATTATTGAGCAAAAAC TACTGT  
AAATAACTTTTTTGTCTTTGTCAAATAAAATTTTTTTTTTGTTTTTTTAAGCAG

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**FIGURE 5757**

AGAGTTTCGGAGGCGGTGACCGTGACGTAGAAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG  
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTGTTTCAGAGTTTACCACCTA  
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAAT  
TGGAATCAAGTCTCAGTCCTGTGGAAGTGTGCTAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG  
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTACCAGGGCATCACAGAGCTCAGC  
CGGTCTATCAGTGTGATTTAGCAGAAAGCAAACGGCTTGGCTGTCTCTGCTTTCCAGTTTCCAGTTCTCTATT  
CAGAACTTGAACCTTTCCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTCTCTT  
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAACTGATGGAACCTACAAAAATGTTTTGAAGATTCAAAAT  
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA  
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG  
GCCAAAATTACTGAGGTCAAAGTGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAA  
CCTGACTACCAGAAAAATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGGATGAACTGCAAG  
GATCAGTGAAACAGCTGCAGGCCTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA  
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACGTGTTGAAGCTTCAGCTACAGAACCCACCTGCCA  
TACATGGATCTGGATCTGGATCTTGTCTAGTGACTTTATGAGAGTTTCTGCCACAAGGTGCCCAAGAGGAGAGGAA  
TGGGAAGAGTGCCCCAGCACGTGGTGACTGCGTGATTCTGCTCGTTGCCTTTGAAGATAACTGGCAGGACTGAC  
TGTAGAACACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC  
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACCTTCTTTTTGAAATGATCTTCAGATCCAGTGGCCCATTTCTTTT  
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTTTGAAACAATCCAAAAATCATTAGGACCAAGTCTAAGGAAACA  
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTCTAGCATGGCTCTGAAGGTGATTTTA  
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG  
ATTGCTTGAGCCCAGAAGTTGAAGACCAGCCTGAGAAATAAGGTGAAACCCCTGTCTACAAAAAATACAAAAAGTT  
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGCTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCCAGG  
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA  
AAAAATTAAAAATTGT

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**FIGURE 5758**

MIINWNQVSVLWKCLLKQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRISISVDLAESKRLGCLLLSSF  
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDGTLQKCFEDSNGKASDFSLEASVAEMKEYITK  
FSLERQTDWQLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTKPDYQKNYRTRAKSLTVWSW

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**FIGURE 5759**

AGCGTTGCGAGACGGTTCGGTTCCAAGTGGGCCTGGGCGCGGGGAGAGGCGGGTCTGTCTCGGGAAGTCAAGG  
CCCTGTGAGCGGGAGGACTGGGATCCCGGCCGCGGCTGCTGGAAGCGTCGAAGCTCAGCGGGGCCGCGGACACTG  
ACCTGTGCTTAGAACTCATCTGGCCCGCAGAGCCTGCCGCGAGTCCCTGGCGTCCCTGTGGCGGGCTCTTGGA  
GCCACTTTCCCGAGCGGAAGTCAGCCCGCGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCCGGG  
TTCAAGCACTGTCTTCTGTTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCCCACTCACTACCTCAC  
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAATTTGGAATCTGCCTTCTACTCCAT  
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA  
TCCAGCAATGTGGATTCCCTCTTCTACGCTGCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTTC  
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTGAGTGAAGGACTCATCTGTTACCCAGATCTACCATGCAGTTGC  
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA  
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCCACCTGTCCAGCAGGCTGACCTGAGGAGCAT  
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAAGTCCGGGGCGTGTATCTCCAGTTTGAAGAAGGACT  
GGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCATGGATCATGTGGGGACTGAGCCATCCATTAAGGA  
GGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT  
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGTACCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTC  
CGACACTCATGAACAGGCTATCTTGGGTTGCAAGTCACCAATGTCTGTCTCAGCCTCTGACTCAGGCCACTGT  
TAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCACCCCTGTAGGGGA  
TGTTTTTGAAGTAAATTTTCATGAACGTCAAATTTCCAGTGGTTATTATGACTTCCTGTGCGAAGTTGAAGGTGA  
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAATGTTGATCT  
TTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAAACCTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCAC  
ATTCATCGCAGACAGCCACCAGAACTTCGCCTTGTCTTCCAGCTGGTAGATGTGAACACTGGTGTGAACTCAC  
TCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA  
CAAGAAGCTGTACAAGTTTGAAGTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC  
TCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTGGCTGATGTGGTCATCAAGTT  
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT  
CCGCGAGCCTGAGAAGAGGGCCCCCACCCTGGTGTCCAATACATTCACTGCCCTGATCCTCTCGCCGTTGCTTCT  
GCTCTTTCGCTCTGTGGATCCGATTGGTGCCAATGTCTCCAACITCACTTTTGCTCCTAGCACGATTATATTTCA  
CCTGGGACATGCAGCTATGCTGGGACTCAIGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA  
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCCAGCAGGCAGTCAAGAGAACAGC  
ACATTAGTTCAGAGAAGAAAGATGAAAATCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAAATTCACAGTA  
TGAGAAGAAAAATGGAAAAAAAACCTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGT  
TTTTAGTTTCCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTCTTCTCTGACACTGTGTAAGAAGC  
TGTGAATATTCTAACTTACCCAGATGTTGCTTTTGAAAAGTTGAAATGTGTAATTGTTTGGAAATAAAGAGGGT  
AACAATAGG

GCACACAGGGGCGAGCTGAGGTGGAGGCAGGCTGCGGCAGACGGCGACAGTGGCGGGCGGCCATGGCAGGGGCTTG  
CAGGATCCCTGCTGCCTTGGTGATCCCGGGCTGACAGCCAGAGAGCACAGCGGCTCAGCTCCTGGAGAGTGAGG  
TTGAAGAAAGCGGAGGGCAGCCGCTGCGCCCGCTGGCTCCCATTAGGTGGTTCTCTGCAGCGGTGCCCCGCAGC  
CTTGGTGAAGGCCCTGCCCCGCAGAGATCATGTATTGCTCCAGTGGCTGCTGCCCGTCTCTCATCCCCAAGC  
CCCTCAACCCCGCCCTGTGGTTACGCCACTCCATGTTTATGGGCTTCTACCTGCTCAGCTTCTCTCTGGAACGGA  
AGCCTTGCACAATTTGTGCCTTGGTTTTCTGGCAGCCCTGTTCTTATCTGCTATAGCTGCTGGGGAACCTGTT  
TCTGTACCCTGCTCCGATTCCCGCTTCCAGAATCGCGCATGATCCCGCGGTTGTGGGCACCTTAACGGCGCTG  
CCCTGTTAGCTTTCCAAGGAAGCAGAAGACGGGAGGGGAGGCATTGACATAGGTCATAAAGCATTGGAGTTTCAA  
ATCCCGCAGCCTCGCGGGTGTCACATTCTGACGGCGCCTTTTTGGCCTGTGATGTTTTATCCTTACAATGTGAA  
TAATGGCACTGACCGGTGCTTTTTATTGTAAAGTCCATAGTCGTGGGTGGTCTTGTGGTTGTGTGTTCTGTCC  
CACTCTAGGTCTCTGGCTGGCCGCATGACCACCCCTCTCGCCTCATTACTGTGAGGAGTCTGGGTCCATCCTGGTC  
AGCTGCCCAAATGTGACCTGGGGCAGATAAAATGCCAGTCTCATTGTACCTCTGTGACCCCTCCTTGTGAGGGT  
CTCCTTCTCTTCCAGAAATGTTACTGACTCCTCAGTCCCTCTTCTGGTTTTCCCTTTATTTCTCTTCTACCCTTTTC  
CTTTTTTGGGGAGTACCTGTCCAAGACAGGGCTCATTTTTTGCACTTATCTCGAATTTGAAGAGATTGCTGACGCC  
CGAGAGCCTCGCTTTTTCATCCTTCTTCTTGTTCAGCAGGCTAGACAGAAACATGTCTTGACTGTTAGTTGTC  
CACAAATCTTCAGTATTTTTCTCCACTTCATTTTTAAGAAAGGAAGCAACAGATAGATGTTGCTCTTTCACCTGGG  
TGCTGGGGCTCAAGCTTTCCCGCCCAGCCTCACTTCTTTGCCCTTCTCTGCTTTCTCAACTGTCCCAAGGA  
GGGGGCCTCATTTGTGTCTCCCGTGCATGCTCTGCAGCATTGAAGTATGGTGTGTTACGTAGTTCTAGCAGTCCC  
CAGCTGAGTGAGTGGGAGAGTACCTGTGTGTTTCGTACGGCCTTGATCCCTTGATAGATGTTTGGATATTTTT  
TGGTGTGCCCTGTGTGTGTGTGTGTACAAATACATGTGTATATTCTTTTTAAAGAAGCTTTATCGAACGTGGT  
CTGATTTTGAGGTTTAGCAATAGCTAGCTATATATGGTAGGTGCCGCTACAGTTTTTATTTAGCATGGGGATTGC  
AGAGTGACCAGCACACTGGACTCCGAGGTGGTTTACAGACAAGACAGAGGGGAGCAGTGGCCATCATCTCCGCCCA  
GGAGCTTCTTCGTTCTGCGCATATAGACTGTACGTTATGAAGAATACCCAGGAAGACTTTGTGACTGTCACTTG  
CTGCTTTTTCTGCGCTTCAGTAACAAAGTGTGTGGCAACGAGACTTTCTCTGCCCCCTGCCTGCTGGAGATCAG  
ATGCGCTGCTCTTTACGTCTGATCCATCACTCTCTCTTGGCTGAGGGGAAAGAGAGATGGGCCAGGCAGAGAAC  
AGAAGTGGAGGCAGTCCATCTAGGGAATGGGACTGTGAGGCCATACTTGTGAACGTCTGGACTGCTATTCTAGA  
GCTTTTTATTGGTGTGTTCTGTTGCACAGCTGTTTGAAATGTTTAAATAAGCTTTATAAACTTTAAAAAAAAAAAA  
AAAAAA

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**FIGURE 5761**

MYCLQWLLPVLLIPKPLNPALWF~~SHSMFM~~GFYLLSFLLERKPCTICALVFLAALFLICYSCWGNCFLYHCSDSPL  
PESAHDPGVVGT



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**FIGURE 5762**

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG  
CGGATCTCGGCAAACCCCTCTTTCTCGACCACCCACCTACCATTTCTTGGAAACCATGGCGGCAGTGGCGGCGGCCTC  
GGCTGAACTGCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCTTGGAAATGCTGCATTTACTG  
GGTAGGATTTCGCTTTTCGAAATCCTCCAGGGACACAGCCCATTTGCGAGAAGTGAGGTGTTTCCAGGTACTCCCTGCA  
GAAGCTGGCATAACCGGTGTCGCGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCCAACTGAGG  
CCCCAGCTCCCAGCCCTGGGCGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG  
CGCAGGAATGTGGGGTCCCCTGTGTTCCCTCGCCAGAGGAGCACTTGGCAAGGTCAGTGAGGGGCCAGTAGACCC  
CCGAGAAGCAGTACCGACAATGACGAAGATACCAGATCCCTTCCCAACCCCTTTGCACCGGTCCCACTAAGGGG  
CAGGGTCGAGAGAGGAGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG  
ACAAAGTCGGGACAGCACCATCCCAGCCCCGAAGCCAGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA  
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGCACCAACCGCGT  
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT  
CCCTTGCCAGGGCACTTGCAATTCAGCCTCGCTGCATTGCTCTCTCGATTCCCCTTTCCCTCCTCACTGCCTCC  
CAAGCCCCACCTACTCCAAAATAATGTGTCACTTGATTGGAATATTCAAGCAGTAAAGTAAATGAATCCCAC  
CTTTACTAAACACTTTCTCTGAACCCCTTGCCCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG  
GTCAATATTGTGTAATCGCTAATTGTACTGATTGTTTAAGTGTGCATTAGTTGTGTCTCCCCAGCTAGATTGTA  
AGCTCCTGGAGGACAGGGACCACCTCTACAAAAATAAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCCCAGGA  
CCCTGCGGTGCAGTAGAGGCGCACC

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**FIGURE 5763**

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT  
ATTTGCTGGGCGGGTACCATGACGCTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCACAAAACGTCCCCG  
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCGGAAACAACTGGTACTCGAGAACGCGGCCGCTATCGGGAAGA  
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA  
GGAAGAGGAAGAGGAGGAGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA  
TAAAAACCAAGAATTGCGGATTAAGTTTCCAGACAATCCAGAGAAGTTTATGGAATCCGAGCTGGACCTAAATGA  
CATCATTCAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAATGCTGTACA  
GTCGCTTCTCGGCTTGTCTGGACACGATAATACAGATGTGTCCATAGCTGTGGTCGATTTGCTTCAGGAATTAAC  
AGATATAGACACCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT  
AGCACTGCTGGTACAGAATCTGGAGCGCCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT  
GGCTATTGTGGAACATGGCTGAGTTCCGGCCTGAGATGTGTACAGAGGGTGGCCAGCAGGGTCTTCTACAGTG  
GCTGTTGAAGAGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTCTGGCCATATT  
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC  
CGTGTTTAAAAGACACAATCCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC  
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG  
GGAAAAGAAGATCTCCCGAGCAGTGCCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA  
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTCCCTCTTTATGAAATCTCCAGGAAGATCAA  
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCGATCCTGGCTTCCCTCCTGCGGAACCTGAG  
AGGGCAGCAGCGGACCCGGCTTCTGAATAAAATCACTGAAAATGACAGTGAGAAGGTTGACAGACTAATGGAGTT  
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG  
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA  
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCCAGATTGCCAGAGGGTTACACAGATCCT  
AAACATGCGAGGAAGCTCCATCAAAATTGTGAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG  
GAGCCCGAGTTCCGGGAGAACGAGCAAAAGCGCATCTGGGCTTGTGGAGAACTTCTAGAGGCACCTTGGCCC  
TGCGCATCATGGACTCTCTCAGCTTCCCTCCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGGACAAAT  
AAAGCTAGTTTTGGTAAAAA

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**FIGURE 5764**

MDVGELLSYQPNRGTKRPRDDEEEEQKMRKQTGTREGRYREEEMTVVEEADDDKKRLLQIIDRDGEEEEEEEE  
PLDESSVKKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDIIQEMHV VATMPDLYHLLVELNAVQSLLGLL  
GHDNTDVSIAVVDLLQELTDIDTLHESEEGA EVLIDALVDGQV VALLVQNLERLDES VKEEADGVHNTLAIVENM  
AEFRPEMCTEGAQQGLLQWLLKRLKAKMPFDANKLYCSEVLAILLQDNDENRELLGELDGIDVLLQQLSVFKRHN  
PSTAE EQEMMENLFDSLC SCLMLSSNRERFLKGEGLQLMNLM LREKKISRSSALKVLDHAMIGPEGTDNCHKFVD  
ILGLRTIFPLFMKSPRKIKKVGTTKEHEEHVCSILASLLRNLRGQQRTRLLNKFTENDSEKVDRLMELHFKYLG  
AMQVADKKIEGEKHD MVRGEIIDNDTEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS  
IKIVRHIIKEYAENIGDGRSPEFRENEQKRILGLENF

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**FIGURE 5765**

CCTCCCTCGGGCTCCGGTCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCGGACTGGGCAATGGGTGGCC  
TCCCAGGTCGCCGCTTCCC CGGGGCCCCGCCCCGCGCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC  
CGCCTCGGCAGTGCCAGCCGCCAGTGGTGCACCTTGAGAGGTCTCGCCGCCAGTGAAGGAGCCACCGCCCCGC  
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACACAG  
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCACGGGGCCAGCCCTTCTGGCTGACCTTGCACTTTGAGGGCCGC  
AACTACGAGGCCAGTGTAGACAGTCTCACCTTCAGTGTCTGACCGGCCAGCCCTAGCCAGGAGGCCGGGACC  
AAGGCCCGTTTTTCCACTAAGAGATGCTGTGGAGGAGGGTACTGGACAGCCACCGTGGTGGACCAGCAAGACTGC  
ACCCTCTCGCTGCAGCTACCAACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCTCCACT  
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTCATTTTGCTCTTCAACGCCTGGTGGCCAGCGGATGCTGTG  
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCCTACCCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG  
TTCATCAAGAACATACCTTGGAAATTTGGGCAGTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT  
GTCAACCCCAAGTTCCTGAAGAACGCCGGCCGTGACTGCTCCCGCCGAGCAGCCCCGTCTACGTGGGCCGGGTG  
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACACTACGGGACGGC  
GTCAGCCCCATGTCTGGATCGGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCAGGCTGCCAGCGCTCAAG  
TATGGCCAGTGTGGGTCTTCGCCGCCGTGGCCTGCACAGTGTGAGGTGCTGGGCATCCCTACCCGCGTCTGTG  
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC  
CAGGGTGACAAGAGCGAGATGATCTGGAACCTCCACTGCTGGGTGGAGTCTGTGGATGACCAGGCCGGACCTGCAG  
CCGGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGCCCCA  
GTTCCAGTTCGTGCCATCAAGGAGGGCGACCTGAGCACCAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT  
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG  
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATCACCCACACCTACAAATACCCAGAGGGG  
TCCTCAGAGGAGAGGGAGGCCCTTACAAGGGCGAACCACCTGAACAACTGGCCGAGAAGGAGGAGACAGGGATG  
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGAATTTGACGTCTTTGCCACATCACCAACAAC  
ACCGCTGAGGAGTACGTCTGCCGCTCCTGCTCTGTGCCCCGACCGTCAGCTACAATGGGATCTTGGGGCCCGAG  
TGTGGCACCAAGTACCTGCTCAACCTCAACCTGGAGCCTTTCTCTGAGAAGAGCGTTCCCTCTTTGCATCCTCTAT  
GAGAAATACCGTGAATGCTTACCGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGGAGCCAGTTATCAAC  
AGCTACCTGCTGGCTGAGAGGGACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCAAG  
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACT  
GTGGAGGGGGCCGGCCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTT  
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTTCGAGAGCGACAAGCTG  
AAGGCTGTGAAGGGCTTCCGGAATGTCATCATTGGCCCCGCTAAGGGACCCCTGTCTCCAGCCTGCTGAGAGCC  
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCCCTTCTTGGGCCCCAGACCCAGGGCA  
GGGTGGGCAGCCTATGGGGGCTCTCGGAAATGGAATGTGCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTG  
CCCACTCACCCCTTTGCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC  
TGGGGTGAGAGAGGAAAGACCTACATTCCCTCTCTGCCCAGATGCCCTTTGGAAGCCATTGACCACCCACCAT  
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAGGGACAGCATGCCCTTGGCTGGATCAGGGAAT  
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG  
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA  
CCTCACCATTTGTGAAGCACCTACTATGTGCTGGGTGCCCTCCACACTTGCTGGGGCTCACGGGGCTCCAACCCA  
TTTAATCACCATGGGAAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC  
CCCCTCCACACCACTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCT  
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGAGAGGCTGTCTGGGGCCTTT  
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT  
TCAGGTCCCACGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCTTGTGGTCAGAGGAGTGATT  
GAACCAGCTCATCTCCAAGATCCTCTCCACTCCATGTTTGCAAT

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**FIGURE 5766A**

CGCTCCTCCGAGATGACGCCGGGGTCCGGTGCCCCGGGCCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG  
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCGCGCCAGGAGAGGAGCCGCGCCGCCCGCCGCT  
GGCAGCCCGTCACCATGGTACCCTCCATCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT  
TTCGAGGCCACAGCACCCACCGTCTGGGTGAGGTGTTCCGTCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG  
AGCTTCTTCTGGATTTCTGATCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAGAAGCAGCCTGTGCTCCCTAC  
TCACACTGCTCTTCTTACAGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC  
AACCCTCTCTTATTGCCGCCAGGGTGACTTCTACCTCCAAGTGAGCCCCAGGAGGAGCAGTCTGTCTGCATCATG

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCTTATACTTTTC  
ACCCAAGAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA  
AATGGGATTGCCCTGTGCCTTGGACCAAGATAACCAGCCAGAGTTTGTGGATGACAGACCCCAAGTAGTGAAT  
GCCCTCTGCCAAGCCTGGGGGCCCCCTTCCATTAGAGGCACTGGATTTGAGCAGCCCTCAAGAGTTGCACCAGGCC  
AGCTCCCCAGACAACCAGGTGCTTCTGCCAGAGTTTGCCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT  
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC  
TTCGAGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCCAGTAGGGAGGCAGGC  
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACCTAAGGAACTCCCTTATTTCAAAAGATA  
CTGCCTCTCTCAGAGGCCAATGAAGGACCTTCCTTGGGAAATCGGGCTTGCAAAAGCCAGAAAGCTCTGAGGAG  
AGGCCCTATAATTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAACTCAGAAAGGCCGCCCAA  
GGCTCCTACATGAATGTCTTGAGGACGCACTGGACTGTGCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA  
GCTGCCTCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC  
TCCTCTCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAAGAG  
AGAAATGGGAGACTTCCCAAGCCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCCCTGAGCCCCCACTCCTGGG  
CTCAAATTCTCATTCTTGAGAGGGCAGAGGCAACCCTCTGTGACCCCGGAGAAAGCCTCACTCCAGCACAAATGGG  
CCCTGGAAAGTCTGTGTTCCTCTACTCTCCTAAACCCAAACCCAGCCAAATCTTTGGGAAAGCTGGAACAAT  
CAGACCAAACATCTGGCCAGCCACTGCCCCAGCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT  
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCAGGGCCTGAGCCAGGATTGGGGCTCTAGGT  
GTCAAGGTTTTCCGCTCCAGGATAGCATGCCCTGCCAGGTGGCCGGGACAGGGCCGGGCGGCCCTGTCTCTGGTG  
TCAACTACAGAGGGGGCTGGGAGGCACCATGGTGCACAGTTTCAGAGGTACCAAGCTACTGTCTACCTGTGT  
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTGTGATTGACGCCAGGAGACAGCCCCACAGCCC  
GGTCTGGTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG  
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC  
CACCATGTGGACCCAGCCAGCTGCCCGCAGTCTGGAAGGCCCTTCCCCTACTGCCACACCCAGTGGGTTTCT  
TTCTTCCAGAAGCTGGACCCTTTCTTGTGACCTCCACAGGCCTCTTCCCTGCTACAAGCTTCCATCGAGGAA  
TTCGAGAAGGCCGACCCCTTGGGGGATGCAGGAGGCTACCAGGTGCCTGAGCAAGTCCAAGGAGCTGATGGAG  
GCTGTGCTGAGGGACCCCGCCTACTGGGCTCCAGCGGGAAGGTGGAGCCACCCTGGCCAGGCTGCAGCATGAT  
GCCAGCAGGCTGGACTTACGCCCTGATGTGAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC  
GAGCAGCTTCATGTTCTGGTCACCGCTTCCAACAGCCTCCTGGGGAAGCTGGAGCTCCGTGTCCGCTGGGCCGC  
CTGGAAGCTGCCATTACCCAGGTGACGACTGGATGGAGCAGGAAGGAAGGCGGTGCCTGCAATCACTGACCCCC  
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAAATTTGAGAACTTCTTCTCCAGGCTGCAGCCAG  
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCAGAA  
CGTGCAGAGTTCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCCTTCCAGGCTGAGCTGACCCACTTTTAC  
ATGGCGGCGGAGCGGCAACGCACGGACCTCGAGACGCTGTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG  
TTCCACATGGACTGTGAGGACCTGATGGCCAGCTCAGGCTGGACAAGACCTCAAGGGTCAGTCTGGGGACCAG  
CGCCGCTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG  
GTGGCCTCCCTGAGCCGGGAGGCCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG  
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCAGAACGA  
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA  
GACTCACTGGGCATGGACCATTTGCCAAAGTCTATTGGCTCCTGGGCCCCCCAGAGGGGAACAGAACAGAAT  
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCCAAGCTG

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## FIGURE 5766B

CCTGACCCTGCCCGGAGCATTGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT  
CGCCTCACTGGGGGAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCAGACAAGT  
CCCCTTGCCCTCCCTCTAGCTGAGAGGCCCCCTTCAGTCGCACCAGCCTCCAGGAGCACTGGGCCAGGGCCAGCTG  
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCAGTGAGACGTACCATTGGAGCACTGGTTTTACATTCTGCCTCTGC  
TGGGAGGATGAGAACTGTCGACCTGCCCCCTGGCTCCAGAAAACCTCTGGAAGACCCGATCTTCACCCATGCAGAA  
TAGCAAGAGTGGGCGTCAGAACCAGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG  
AAAGACCTGTGCGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA  
TACACAGCTCTCCCCTCGGGTACGAGGGCCAGTGTGCCCTTAGGCAGAATCCTCGGGGAGATTCCGGGAGTGCTT  
CCTTGCTTGGATTCCAGGAAAATGGACCCTGAGATGAGGATTAAGGATCAGTGTGTTTGGTGTGATCCAGGA  
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTCTTTTTTT  
TAATTTTTTAAACTTCATTGTATTTTATGTTTAGAGATGGGGCCTCACTACATTGCCAGGCTGGTCTCAAACCTC  
CTGGGCTCAAGTGATCCTCTTGCTTGGCTGCCAAAGTGCTGGGATTGCCTTTTCCGCCCCACCCCCCGACCC  
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAATCATAGCCTTAAATTCCTGGGTT  
CAACCAATCTCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT  
ATTTATTTTTTGTAGACATGGGGTCTTGCTATGTGCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA  
CTCAGCCTCCCAAAGTGCTGGGATTATACGTATGAGCCACTGTGCCCCACCCTCATACAAATTTCCATGTTGGCA  
ACTGTAGCTGGATCTTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCTGAGGCGTGAGGCAT  
CCAGAGCATTATCTGCCAACCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG  
CAAAGAGAATTGCCTCCTGGAGCCAGAGGCCGGTTCTGTGCTTAGAAAGGAAGGACATGTCTTCTGTGCTCCCT  
GTCTCACAAGGCCTCTTCAGCAGGCATGGGACCTCATTCTCAAGTTCAAGGAACCTGTGGAACCTGTGCTTGG  
TCCTCCAGAGAGAATCCTCTCCGCCTTAGAGGTCCCTCCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA  
ATGTCTTCTGTCCCCTTCCCTGCCCCAATTCCACTTCTCTATGCCAGCCTCTGTGCGCCAGTACCATTGGGGTT  
CTGTGGGCAGCTGGGTCCGTGGTGGTGGGGACCGTGGGAAGGGGCCCTATCTGTGCGATCTTAGATGGAGCATCCA  
GAAGCCCCACCCCTTCATACTGGCCAGAGTGGCCCTGCCAGCGCCTCTCTGGAGTGTCAATTAAGCTGAAAGTGTT  
TGCCTTACCTCTGCAGTAGGATGCATTACTGAAGTGGCCTCTTGGTCACCTAGCTCTGAATTTTCTGGCTCCAG  
AAAGAGGCTGTGGGGCACAGGTCCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGCCAGGCACAGG  
AGGACAACCTAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC  
TTCCAAGACTGAAGACTTCCCAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA  
GGCTTCTTAGGGAATCCTACCCAGACATTAAAAATAGACTCTTGGTGCTGGCAGGTGGCTGGAATCTGCGTTTGT  
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGCATTGGGGGAACACCCGGGGCTGGGGCCTGAGTC  
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATTCCTTCCCTGCCTTCCATCCAGACAGGCCCAAAGATGCAAGAG  
GCGTTGATCAGCCCATCTCCATCCATGCCTGTTGCCCTCAGAGAGGGCCGACGGCTTTTAAAATGCTGTTGCCATA  
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGTGGGATGGAACCTGACTTG  
TGAGAGACCACAGCTACTGTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGGCGGGAG  
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC  
ATCCCCTGGGGAAGAAGGGAATGCAGAAATGAAATGTCATAATGAGTAACAATGTATAAAAATATCGAATAATAA  
CAGCT

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**FIGURE 5767**

MIKCLSLDLCTVDKKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCLVASENGIAPVPWTKITSPEFVDDRPQVV  
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPAQSLAKGKGRTYGSKYPGLIKVEQARCEVAFRMDEVVSQ  
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIACTKETPLFQKILPLSEANEGPSLGNRACTKPESSE  
ERPYNLGFRRKVNKAPTHNSERPPQGSYMNVEDALDCASGLRAGVSQEPAASKMQGPLGNPENMVQLRPGPRQ  
ASSPRLSPASPAAAASETKIEVKTKERNRLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN  
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL  
GVKVFRRSRIACLPGGDRAGRPLLLVSTTEGAWEAPWCTVSEVTLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ  
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLDPVQVEVLTSLKALSHHVDPSQLPAVLEGPFPPYCHTEWV  
HFFQKLDPFLADLHQASSLLQASIEFEKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLOREGGATLARLQH  
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT  
PKDGSLETVEKAHAEEFNFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAFFPELAFASTQRAFAQELTHF  
YMAAERQRTDLETLHLHRFCRMTWFMDCQDLMAQLRLDKTSRVSPGDQRRHLHRYLQRLASEFFPAEKLAAGL  
QVASLSRAGLGQELWEEARIRHEEIRMLLEKALTHSSCPEAPAAHSARPERRGVAAGQGVSEVTSGKRWDPF  
LDLGMDDLKPSYWPPGPPRGEQNRTFQAGSPPEAGQAAEAEDGKGSHKLPDPAREHLLATTFRQPPRQSQV  
PRLTGGFSFSEGTDSQTSLEDSPTSPLASL

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**FIGURE 5768**

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG  
CGTCCCTGATGGTGCTGGTCGCCATAGGCACCGCGTGACAGCGGCCGTCAACCCTGGCGTCGTGGTCAGGATCT  
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATTCT  
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG  
AATTCCAGCTTCCCAGTTCCCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA  
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGCAATTTTGACCTGAGCATAGAAG  
GCATGTCCATTTGCGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT  
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTCTCCACA  
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG  
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG  
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTTACAGTGAGAACCACCACA  
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG  
ACTACTTCTTCAACACAGCCGGCTTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCTTAGAGATGACATGA  
TTCCAAAGGAGTCCAAATTTGACTGACAACCAAGTCTTTGGAACCTTCCTACCTGAGGTGGCCAAGAAGTTTC  
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT  
TCTACCCTGCCGTGGATGTCCAGGCCTTTGCCGTCTCCCAACTCCTCCCTGGCTTCCCTCTTCTCTGATTGGCA  
GCACACAACCTGGTTCCATGGAGGTCAGCGCCGAGTCCAACAGGCTTGTGGAGAGCTCAAGCTGGATAGGCTGCT  
CCTGGAACCTGAAGCACTCAAATATTGGCCCCCTTCCCGGTTGAATTGCTGCAGGATATCATGAACCTACATTGTACC  
CATTCTTGTGCTGCCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGGCCAGAGTCCAGCT  
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCTGCTGTTTCGGTGCAGACGTTGTCTATAAATGAAGGCACCA  
GGGGTGCCGGGGGCTGTGAGCCACACCTGTTCCGTGATGGGCTGTGGGGCACCGGCTGCCTTTCCCCAGGGAATCC  
TCTCCAGATCTTAACCAAGAGCCCCCTGCAAACCTTCTCGACTCAGATTCAGAAATGATCTAAACACGAGGAAAC  
ATTATTCAATTGGAAGAGTGCATGGTGTGATTTTAGGGATTATGAGCTTCTTTCAAGGGCTAAGGCTGCAGAGAT  
ATTTCTCCAGGAATCGTGTTTCAATTGTAACCAAGAAATTTCCATTTGTGCTTCATGAAAAAAACTTCTGGTT  
TTTTTCATGTG



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**FIGURE 5769**

GCGCTCCAAGATGGCGGCGAACGTGTTCCCGTTCGCGACGCCCGTGCCGCACCGGACCCAGTGCTGGAGGCCGG  
CCCGGTGGCACACGGGCCACTGCCGGTACCGCTGGTGCTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC  
GTGTCCCGGGCAGGACCCAGGTCCCGAGCCGCGCCTGCAGTTCCGCGCGGTGTGCGCCCGGGTCTGTGGCGGGC  
ACGGGGCGCGTCGGGCCCCGAGGTGGGGAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC  
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCCAGCACCTGGGTGT  
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT  
GATGTCTGAGCTTCTTTTTGAGTGCTACGGGATTCCTCAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA  
CCACAATAAGCCAAAGAAGCTCGATGTGCAGTGGGTAATCATTTTCATCTGGATACAGTGACGCATGTTTTACC  
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCT  
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA  
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGTCCTGATTATTATGAGAATAA  
TGTCACAAGATGCAGCTCCATTTTCCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG  
GCGGCAGCAGCAATTGCGGCGGCTGCAGGAGCTCAATGCCCCGCGGGGAGGAGAAGCTGCAGCTGGATCAGGA  
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT  
AGAGCTGAATATGGAATCCCCAGAAGAGCTGCAGTCTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA  
GCAGAAAATCCTCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA  
GCAGCTGGAGCCGTCTTTGGAAGATGTGGAAGCATGAATGATTTTGATCCCTTGTTTTAGAGGAAACACCTGG  
AGTGGAGAAGCCGGTCACCACTGTTTCAGCCCGTGTGTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA  
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT  
TCAGTACATTCTGGACAGGTACCCAGAGGACATTTCAGGAAATGCTGGTTCAGAACGTTTTCTCTACTGGCGGCAA  
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAAGTGTGGAGATGAGACCCCTCCGGTCTTCTTTTCA  
GGTTCAACTTGCTCGAACCCCTGTGCTGGATGCCTGGTACGGTGCTCGTGACTGGGCCTTGAACCACCTAGATGA  
TAATGAAGTTTGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGTACCTCAAGGAGCACTGTGCTTCCAA  
CATCTATGTCCCATCCGCCTGCCGAAGCAGGCCTCCCGTCTCTCAGATGCCCAGGCATCCAGCAAGGGCTCCGC  
TGCTGGTGGAGGTGGTGCTGGTGAGCAGGCATAGCAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCTTG  
GGCCACGTTGGCAGTGTGACAGGACTGTGATTGTGCTAGATGTACCTGCCCAAGTCTGCTGGTACATTTGGCAG  
CAAATGGATTTCTCCTGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAGAATTCGGTTCACCTGGG  
GGCTTCTGTGGTAGAGACTAACTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG  
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAATGCACAAGACTGATTTCTTACCACATTTTAGT  
CTTCTTGTTTT

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**FIGURE 5770**

MAANVFPPRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA  
SGPQVGNALGSLEPLRWMLRSPFDRNPVNLELQELLLDYSFQHLGVSSQGCVDHP IVLTEAVCNPLYSRQMMSE  
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLP ILEGR L DAKNCKRINLGGSQAAGYLQRL  
LQLKYPGHLAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDYENNVMQ L P FSSKLLGSTLTSEEKQERRQQ  
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLE DGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI  
LQAEVNLEVDVVD SKPETPDLEQLEPSLEDVESMND F D P L FSEETPGVEKPVTTVQPVFNLAAYHQLFVGTERIR  
APEIIFQPSLIGEEQAGIAETLQYILD R Y P E D I Q E M L V Q N V F L T G G N T M Y P G M K A R M E K E L L E M R P F R S S F Q V Q L  
ASNPVLD AWY GARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG  
GGAGEQA

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**FIGURE 5771A**

GGGGTGCCGCCGCCGCCGTTGCGCTTGCTCCCGGGCGGTCTGGCCTGTGCCGCCGCCGCCCCAGCGTCGGAGC  
**CAT**GGCGGGCGCCGCGTCCCCCTTGCGCCAACGGCTGCGGGCCGCGCGCCCTCGGACGCCGAGGTGCTGCACCT  
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGACGCGACCCGAGCGGAAGAC  
CTTCCAGGTCAAGCTGGAGACGCGCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT  
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG  
GCCGGACCAGTCACATTGCTTTGTCATTCTCTATGGAATGGAATTTGCGCTGAAAACGCTGAGCCTGCAAGCCAC  
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTGATGGAGGATACATTGCAGGCACCCACACC  
CCTGCAGATTGAGAGGTGGCTCCGGAAGCAGTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA  
GGACCTGAAGAACATGCTGTCCAGGTCAACTACCGGGTCCCCAACATGCGCTTCTCCGAGAGCGGCTGACGGA  
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGTCTAGCTGTACCGCAGCCTCATGTACAGCGCCCA  
GAAGACGATGGACCTCCCCCTTCTTGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGTC  
CCTTCTGAGTTCCAGCAGTTCTTCTTGACTACCAGGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA  
GTTTCATGCTCAGCTTCTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCTGGATGAGTTTGTAC  
CTTCTGTCTCCAAGAGAACAGTGTGTGGAACCTGCAGCTGGATGCAGTATGCCCGGACACCATGAACAACCC  
TCTTTCCCACTACTGGATCTCTCTCGCACAAACAGTACCTGACCGGGGACCAGTTCTCCAGTGAGTCTCTCTT  
GGAAGCCTATGCTCGCTGCCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACCGGCCGGATGGGAT  
GCCAGTTATTTACCATGGGCACACCCTTACCACCAAGATCAAGTTCTCAGATGTCTGCACACCATCAAGGAGCA  
TGCCTTTGTGGCCTCAGAGTACCCAGTCATCTGTCCATTGAGGACCACTGCAGCATTGCCCAGCAGAGAAACAT  
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAGCCCGTGGAGATCTCTGCCGACGGGCTCCC  
CTCACCACACAGCTTAAGAGGAAGATCCTCATCAAGCACAAGAAGCTGGCTGAGGGCAGTGCTTACGAGGAGGT  
GCCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCCTCTACCTGGAGGACCC  
TGTGAACCACGAATGGTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTACTCTGAGGAGACCAGCAG  
TGACCAGGGCAACGAGGATGAGGAGGAGCCCAAGGAGGTGACGAGCAGCAGACAGAGCTGCACTCCAATGAGAAGTG  
GTTCCATGGGAAGCTAGGGGCGAGGGCGTGACGGGCGTCACATCGCTGAGCGCCTGCTTACTGAGTACTGCATCGA  
GACCGGAGCCCTGACGGCTCCTTCCCTCGTGCGAGAGAGTGAGACCTTCGTGGGGGACTACACGCTCTCTTTCTG  
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCAAGTTCTTCTTGACAGA  
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCAGCACTACCAGCAGGTGCCCTGCGCTGTAATGAGTTTGA  
GATGCGACTTTTCAAGCCTGTCCACAGACCAACGCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG  
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCTGGTGCGGAAGCGGAATGAACCCAA  
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGAT  
GCTAGGGAACCTCGGAGTTTCAGACGCTTGTGACCTCATCAGCTACTATGAGAAACACCCGCTATACCGCAAGAT  
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA  
TGAGGGACGCAACCCCTGGCTTCTATGTAGAGGCAACCCCTATGCCAACTTTCAAGTGTGCAGTCAAAGCCCTCTT  
TGACTACAAGGCCAGAGGGAGGACGAGCTGACCTTCATCAAGAGCGCCATCATCCAGAATGTGGAGAAGCAAGA  
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT  
CAACCCCGTGGCCCTGGAGCCGAGAGGGAGCACTTGGACGAGAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT  
CTTGGATGTGCCGGCTTGTGAGATTGCCATCCGTCTGAGGGCAAGAACAACCGGCTCTTCGTCTTCTCCATCAG  
CATGGCGTCGGTGGCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA  
GATCCGTGAAGTGGCCAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC  
CCTGGAGCTCTCTGAACTTGTGCTACTGCCGGCTGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC  
TTGCTACCGGGACATGTATCCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT  
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTTCCAACCTACGATCC  
TTTGCCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTCCAGACCCCTGACAAGCCTATGCAGATGAA  
CCAGGCCCTCTTCATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA  
CCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCGACATCT  
GCCAAAGAATGGCCGAGGCATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACC  
GCAGAAGACAGAGTTTGTGGTGGACAATGGACTCAACCCCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG  
TAACCCCTGAATTTGCCTTTCTGCGCTTCGTGGTGATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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**FIGURE 5771B**

GGCTACTTTCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACACTACAGTGAGGACCT  
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG  
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCGGGAAGGCTCCTTTGA  
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA  
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCAGCCTCGTTGGAGAGCA  
GCAGGTGCTGTGCGCCTTGTAGAATGCCGCGAACTGGGTTCCTTGGAAGCAGCCCCCTGTGGCGGCCTTCGGGT  
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAAATGAGATGTTATTACTGT  
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAACTGTACTGTGTTTCGCATTAAAGCACACACATCTGGC  
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCTTGGAGAGAGAGGCTG  
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCTAAGAGTGGAGGAGGAGGAGCCTTGCT  
GGGCCAGGGAACAAAGTTTACATTGTCCTGTAGCTTTAAACACAGCTGGGCAGGG

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**FIGURE 5772**

MAGAASPCANGCGPGAPSDAEVLHLCSLEVGTVMTLFYSSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI  
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPT  
LQIERWLRKQFYSVDRNREDRISAKDLKNMLSQVNYRVPNMRFRLRERLTDLEQRSGDITYGQFAQLYRSLMYSAQ  
KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLDYQGELWAVDRQLQVQEFMLSFLRDPFLREIEEPYFFLDEFVT  
FLFSKENSVMNSQLDAVCPDTMNNPLSHYWISSSHNTYLTGQFSSESSLEAYARCLRMGCRCIELDCWDGPDGM  
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP  
SPNQLKRKILIKHKKLAEGSAYEEVPTSMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS  
DQGNEDDEEPKEVSSSTELHSNEKWFHGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDTLSFW  
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDLSYDLITHYQQVPLRCNEFEMRLSEFPVQTNAHESKEWYHASLTR  
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKM  
KLRYPIINEEALEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE  
GGWWRGDYGGKKQLWFPSNYVEEMVNPVALEPEREHLDENSPGLDLLRGVLDVPACQIAIRPEGKNNRLFVFSIS  
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVFPFDEEKIGTERA  
CYRDMSSFPETKAKEYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQVLALNFQTPDKPMQMN  
QALFMTGRHCGYVLQPSTMRDEAFDPFDKSSLRGLEPCAISIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTK  
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSQNFQAQATFPVKGLKTGYRAVPLKNNYSED  
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGS DASGQLFHGRAREGSFESRYQQPFEDFRISQEHLDHFD SRE  
RRAPRRTRVNGDNRL

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**FIGURE 5773**

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCCTTAAATTC  
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAGTATCAAAGAAAAATAAGAT  
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCCTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA  
GGAATTTCTGAAAAACAAGGCCTTTTTACATTACCAAGAACTCACAGCTACTCTGTGAATGCCCTAGATATTTG  
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA  
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTGGTACCCT  
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTGATTTTCAGACTAAGATTAAT  
AAATGCTTTTAAATAAAGTAACTTTTAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCACCTCTCAAACCTGCA  
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACTCCTACAAATTTGCAGTATTCAA  
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAATTTACAAGTATGATCTAACCAATT  
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTAACTGGCAACTGACTTTACTGAGAT  
TAAGTGCCTGTTAAACATAATGATCTTTTCAGCAGAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT  
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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**FIGURE 5774**

GCTGACGCCTTCGAGCGCGGCCCGGGGCCCGGAGCGCGCGGAGCAGCCCGGGTCCTGACCCCGGCCCGGGCTCCCG  
CTCCGGGCTCTGCCGGCGGGCGGGCGAGCGCGCGCGGTCCGGGCCGGGGGATGCTCTCGCGGACGCGCTGCGA  
GGATCTGGATGAGCTGCACTACCAGGACACAGATTGAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA  
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGGACAGCAGGACTGGAAGTTCTTGGC  
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTCAA  
GGGGCCATGGACCAAGAGGAAGACCAAAAAGTCATCGAGCTGGTTAAGAAGTATGGCACAAGCAGTGGACACT  
GATTGCCAAGCACCTGAAGGGCCGGCTGGGGAAGCAGTGCCGTGAACGCTGGCACAACCACCTCAACCTTGAGGT  
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCACAAGGTGCTGGGCAACCGCTGGGC  
CGAGATCGCCAAGATGTTGCCAGGAGGACAGACAATGCTGTGAAGAATCACTGGAACCTTACCATCAAAAGGAA  
GGTGGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCAGTGTACTTGTGCTGGAGCTCGAGGA  
CAAGGACGGCCTCCAGAGTGCCACGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCCGTCCTCC  
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAACCTGCAGCAGCCACCACATCGAAGGAACAGGAGCCCATCGG  
TACAGATCTGGACGAGTGCGAACACCAGAGCCCTTGAGGAATTCCCGAAGCGTGAGGACCAGGAAGGTCCCC  
ACCAGAAACGAGCCTGCCTTACAAGTGGGTGGTGGAGGCAGCTAACCTCCTCATCCCCGCTGTGGGTTCTAGCCT  
CTCTGAAGCCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA  
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCACATCAGCAGCAAGTCCTGCCACC  
CCGCCAGCCTTCCGCCCTGGTGGCCAGTGTGACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG  
GAGCAGCCGGGGCGAGCTGATCCCATCTCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC  
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCCTGTCACTGAGAATAGCACCAGTCTGTCTTCTCT  
GGATTCTGTAAACAGCCTCACGCCAAGAGCACACCTGTTAAGACCCTGCCCTTCTCGCCCTCCAGTTTCTGAA  
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT  
GGTGGTCACCACACCACTGCACCGGGACAAGACACCCTGCACCAGAAACATGCTGCGTTTGTAACCCAGATCA  
GAAGTACTCCATGGACAACACTCCCCACAGCCAACCCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA  
GCCCTTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAACTCAT  
CATCGAGGACGACATCAGGCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG  
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATCCTT  
GCCGACAACCTGCCCTTCAAACCTTCCAGCCTCACCCCTGTGAGGTATCAAAGAAGACAACAGCTTGCTCAACCA  
GGGCTTCTTGAGGCCAAGCCCGAGAAGGCAGCAGTGGCCCAGAAGCCCCGAAGCCACTTCACGACACCTGCCCC  
TATGTCCAGTGCCCTGGAAGACGGTGGCCTGCGGGGGGACCAGGGACCAGCTTTTTCATGCAGGAGAAAGCCCGCA  
GCTCCTGGGCGCCTGAAGCCAGCCACACATCTCGGACCCTCATCTTGTCTCTGAGGTGTTGAGGGTGTACAGAG  
CCCATTTCTCATGTTTACAGGGGTGTGGGGGACAGAGGGGTCTGTGAATCTGAGAGTCATTGAGGTGACCTCCTG  
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC  
GAGCCCAGCTGTGGGCGGCTCCTGGTGCTAACAACAAAGTTCCACTTCCAGGTCTGCCCTGGTTCCCTCCCAAGG  
CCACAGGGAGCTCCGTCAGCTTCTCCCAAGCCACGTCAGGCCTGGCCTCATCTCAGACCCTGCTTAGGATGGGG  
GATGTGGCCAGGGGTGCTCCTGTGCTCACCCCTCTCTTGGTGCATTTTTTTGGAAGATAAAATTGCCTCTCTCTT  
TG

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**FIGURE 5775**

MSRRTRCEDLDELHYQDTS DVPEQRDSKCKVKWTHEEDEQLRALVRQFGQQDWKFLASHFPNRTDQQCQYRWLR  
VLNPD LVKGPWTK EEDQKVIELVKKYGTKQWT LIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH  
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVD TGGFLSESKDCKPPVYLLLELEDKDGLQSAQPT EGQGSLL  
TNWPSVPPTIKEEENSEEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWVVEAANLL  
IPAVGSSLSEALDLIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG  
HTISDLSRSSRGELIPISPSTEVGSGIGTPPSVLKRQRKRRVALSPVTENSTSLSF LDSCNSLTPKSTPVKTLP  
FSPSQFLNFWNKQDTLELESPLTSTPVCSQKVVTTP LHRDKTPLHQKHA AFVTPDQKYSMDNTPHTPTPFKNA  
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELI IEDDIRPEKQKRKPG LRSP IKKVRKSLALDIVEDV KLMMS  
TLPKSLSLPTTAPSNSSSLT LSGIKEDNSLLNQGF LQAKPEKA AVAQKPRSHFTTPAPMSSAWKTVACGGTRDQL  
FMQEKARQLLGR LKPSHTSRTLILS



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**FIGURE 5776**

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGGAGGGAGCAGCG  
CCGGGGCGCACGAGGGCACCATGGCCCCAGACGCCCGCCTTCGACAAGCCCCAAAGTGAAACTGCATGTCCACCTAG  
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGATCGCCCTCCCAGCTAACACAGCAG  
AGGGGCTGCTGAACGTCATTGGCATGGACAAGCCGCTCACCCCTTCAGACTTCCTGGCCAAGTTTGACTIONTACA  
TGCCTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTGTAGAGATGAAGGCCAAAGAGG  
GCGTGGTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCCAAAGTGAGCCAATCCCCTGGAACC  
AGGCTGAAGGGGACCTCACCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT  
TCGGGGTCAAGGCCCGGTCCATCCTGTGCTGCATGCCACCAGCCCAACTGGTCCCCCAAGGTGGTGGAGCTGT  
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGCTGGAGATGAGACCATCCCAGGAAGCAGCCTCT  
TGCCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG  
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCTGG  
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACTTCGAGATCTGCCCTGGTCCAGCTACCTCA  
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA  
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG  
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCCTCCCAGAAGATGAAAAGAGGGAGCTTC  
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT  
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTACATTTATCCTTCCAAGAA  
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCTATGTGTCCATTCTGCACACACGTATACCTCGG  
CATGGCCGCGTCACTTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGCACATGGGCATGGTTGAATCT  
GAAACCCTCCTTCTGTGGCAACTTGACTGAAAATCTGGTGCTCAATAAAGAAGCCCATGGCTGGTGGCATGC

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**FIGURE 5777**

MAQTPAFDKPKVKLVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAAGC  
REAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKVEPIPNWQAEGDLTPDEVVALVGQGLQEGERDFGVKARS  
ILCCMRHQPNWSPKVVVELCKYQQQTVVAIDLADGETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGSAEVVK  
EAVDILKTERLGHGHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNQANYSINTDDPLIF  
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDLYKAYGMPPSASAGQNL

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**FIGURE 5778**

GTTCGCTGTTGGGCGGAGATATTGCGCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG  
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC  
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT  
GCAGGCGCAAGGTTCTTCAGACCCAGAAGAAGAAAGTGTCTCTACTCCAACCGAGCAGCATGTCACTTGAAGGA  
TGGAAGTGCAGAGACTGCATCAAAGATTGCACCTCAGCACTGGCCTTGTTCCCTTCAGCATTAAAGCCCCTGCT  
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT  
TGATGATAATGTGACGTCAGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA  
GTGGCGCCTGAAGCTGCCCTCAATCCCCTTGGTGCTGTTTCAGCTCAGAAGAGGTGGAATTCCTTGCCTTCGGA  
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCTTCTGCTGGGGA  
TGTGGAGAAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTTGTAAGAAGGGAAACCATAAGAAAGCTATTGA  
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT  
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAAGAAGCTGAAGGCATT  
CTACAGACGGGCTCAAGCC@ACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA  
GATTGAGCCTAGGAATGGTCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG  
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCGCTCCTGAAACCCA  
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCCACCCTGTAAGAGGCTTTGCTTG  
TTCAAATTAAGTCACTGTAGTCAAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG  
AAGCTGAAGCTCTGTCCCTATTCCCCCAGCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATTT  
GGCTTTGTCTGCCAAGTGGGCTGCAGACTGAGTGCTGCCCTGTAGCTTCCCAGACCCCAACTCACTGCAGT  
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC  
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGTCTTGCAC  
AGTCTCCTATGTCTGAGCCCCAGTGCCTTCTGTTGCGGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCTTGA  
ATGGTTGTCTTGAAGTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCAGTGATTGTG  
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGCCCTCCTTGGTCAGTGTCATGCTTTCTGGGCAGGGACTTGG  
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTGAATTGACTG  
ATTTTGTGAACTGTGTGTTAAGCTGTTGCATTAATAAAGCTTCTTCTACATCAATATCTGCTGTGCTTTTCATT  
TATGCCTTTTCAGCTTTGCACCTGGAAGTCTGTAGTAATAATAAAGTTATTGCTTATTGGGCATTC

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**FIGURE 5779**

CAATACAGCTAAGGAATTATCCCTTGTAATACCACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA  
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCATGAGGGCCAGCAGCTTCTTGATCGTGGTGG  
TGTTCCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACACTGTCA  
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG  
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT  
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA  
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCAT  
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCTCCCATTAGGATGCCCACGGCTG  
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

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**FIGURE 5780**

MRASSFLIVVFLIAGTLVLEAAVTGVPVKGQDTVKGRVPFNGQDPVKGQVSVKGQDKVKAQEPVKGPFVSTKPGS  
CPIILIRCAMLNPPNRCLKDTCFGIKKCEGSCGMACFVPQ

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**FIGURE 5781**

CAGAGTCACTCCTGCCTTCACCATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAAGTCT  
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTG  
CCTTAGATACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCTGACACTTG  
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCAACAAGGAGGAAGCCTGGGAAGTGCCCAGTGACTTA  
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTTG  
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTCCTGCCATATGGAGGAGGCTCTGGAGT  
CCTGCTCTGTGTGGTCCAGGTCCTTTCCACCCTGAGACTTGGCTCCACCCTGATATCCTTCTTTGGGGAAAGGC  
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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**FIGURE 5782**

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPPKSAQCLRYKKPECQSDWQCFGKKRCCPDTCGIKCLDP  
VDTPNPTRRKPGKCPVTYGGCLMLNPPNFCMDGQCKRDLKCCMGCMCGKSCVSPVKA

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**FIGURE 5783**

GCGGCTATGCCGCTCTGGCTCTGCTCGTCTGTGCTCCTGGGGCCCGGCGGCTGGTGCCTTGCAGAACCCCCACG  
CGACACCTGCGGGAGGAACTTGTTCATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCGCGACG  
CGCTGGGATTGCGAGCTTCAGCGGGAAGGAGTGTCCATTACAGGCTCTTTCCCAAAGCCCTGGGGCAGCTGATC  
TCCAAGTATTCTCTACGGGAGCTGCACCTGTCAATTCACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC  
TTCTGTCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAATCTTGG  
AAGGAGCTCAGTAATGTCCTCTCAGGGATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT  
CCCCTGCTCTCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG  
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTTTGCCCTGTAGTTCCAAGGCAGGCCTCTCT  
GTGCTGCTGAAGGCAGATCGCTTGTTCACACCAGCTACCACTCCAGGCAGTGCATATCCGCCCTGTTTGCAGA  
AATGCACGCTGTACTAGCATCTCTGGGAGCTGAGGCAGACCCCTGTCAGTTGTATTTGATGCCTTCATCAGGGG  
CAGGGAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCCGAACCCCTCACGGAGCCCTGCCCTTGCTTCAGAG  
AGCCGAGTCTATGTGGACATCACCACTACAACAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACT  
ACATATCAGGACGTCACTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC  
AACTCTCGAAACCTCAACATCCAGCTCAAGTGGAAGAGACCCCAAGAGAATGAGGCCCCCAGTGCCCTTCTCTG  
CATGCCCAGCGGTACGTGAGTGGCTATGGGTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA  
TACCGGGCTTCCCGGTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCTCACCATC  
ACCTCCAAGGGCAAGGAGAACAAACCAAGTTACATCCACTACCAGCTGCCAGGACCGGCTGCAACCCACCTC  
CTGGAGATGCTGATTACAGTGCCTGGCCAACTCAGTCACCAAGGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG  
TGGACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTCAGCCATCTGTCTCAGCGCCCTTGTGCCCAGC  
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTTCACAGTCTCTGATGGCTCT  
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC  
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC  
ATCGAGGAGCCCCGACAGGTGGCCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA  
CTCTGATTCTTGGCCCTTTCCAGCAGCTGCAGCTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC  
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTGAGGGCTACAGCTGTGTTGTCCA  
GTACAGGAGCCACGAGCCAAATGTGGCATTGGAATTTGAATTAACCTAGAAATTCATTTCTCACCTGTAGTGGC  
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTGGTGGCTGCTGTATTGGACAGCACAGAAAAAGATTTT  
CATCACACAGAAAGGTGCGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA  
GTGGATGGAGTTTACTGTTTGTGGAATAAAAAACGGCTGTTTCCGTGCAACACAAAAA



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**FIGURE 5784**

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPKALGQLISK  
YSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTVTDVDKSWKELSNVLSGIFCASLNFIDSTNTVTPT  
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCRNA  
RCTSISWELRQTLVVFDAFITGQKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY  
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPEAEAPPVFFLHAQRYVSGYGLOKGEISTILLYNTHPYR  
AFPVLLLDTPWPYLRLYVHTLTITSKGKENKPSYIHYQPAQDRLQPHLLEMLIQLPANSVTKVSQIFERALLKWT  
EYTPDPNHGFYVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDFSMYPYVI  
CLICTVAVCYGSFYNNLLTRTFHIEEPTGGGLAKRLANLIRRARGVPPL

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**FIGURE 5785**

GGCACGAGCGAGTTCCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAACCGCGACCCAGCCGCCACTAG  
CGTCGCCGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGGTCCGGTGGGCAAAGGCTACAGCA  
GGAGCTGATGACCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCTGAATCAGACAACCTTTTCAAATG  
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCCCAG  
TGGCTACCCTTACAATGCGCCACAGTGAAGTTCCTCAGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA  
CATATGCCTGGACATCCTGAAGGAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG  
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT  
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTCACCAGCCAGGAGCCCTTGACCCAGGCTGCCCAGCCTGTC  
CTTGTGTCGTCTTTTAAATTTTCCCTAGATGGTCTGTCCTTTTGTGATTCTGTATAGGACTCTTTATCTTGA  
GCTGTGGTATTTTGTGTTTTGTCTTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT  
TTTTGTCCTTTTTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 5786**

MASQNRDPAATSVAAARKGAEPSSGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE  
DLRYKLSLEFPSPGYPNAPTVMFLTPCYHPNVDTOGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNT  
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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**FIGURE 5787**

GAACCCGGCCGACCTCCATGGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGGCGGCCCTGAATGCACC  
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCGGCTGCGGCACGCCTTGCCCGGCGACGGCCCCG  
GGGAGGCGGGCGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC  
TGTCCTCCCGACTCAGCGGCACCCCTCAGCTTCACACGCGCGGAGGACGACGAGGACGACGAGGACGAGGACGACG  
AGGAGGCTGGCCCTGACCAGCTGCCCCCTCGGGGATGGGACGTGAGGAGAAGACGCAGAACGGAGCCCCCACCTG  
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGCAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC  
CCCAGCGGCTGCTCTTGAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC  
TCGCCGTGATCGGCCAGGACCGCCAGATTGCCAGCCAGCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC  
TGCACCGAAACCTGCAGCGGCAATTCCGGGGCCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGGA  
ATTTTACTGCAGAGACCATTGCCCGCCGTAGCCGGGCTTTGAGCAGTTTTTGGGTACCTGCAGGCAGTGCCTG  
AGCTGCGCCATGCCCCGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA  
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCTCTG  
GCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCCTGGAGAGGCCC  
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCCTTTGCTGGCACCCCTTTCTGGAGG  
CCCATGTCCGGCTCTCCTGGCGCTGGGCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG  
CAGGCCTTACCCCCACACCACCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTTAACCTTGCCTA  
GATTTAAGGCCACTGTGAGGAGAGGGGTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG  
AGGCTGCAGAGGGTGTGGGAGCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAACTTCTGTGA  
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAAGTCTGACACAGCCTCTCCAGCCT  
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTGGTGGGCCCCAAGCTGGCAAGGCCT  
CTTGGCTGAAGGCCAGGACTCTGCCCTGGAGTCTGGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGCCCC  
AGGGGAATTAAAGCCAGCCACTCC

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**FIGURE 5788**

MHRGTQEGAMASRLHRLRHALAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDEDE  
DDEEAGPDQLPLGDGTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLEVTSANVVKDPPSKYVL  
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMAAISFPRKRLRRNFTAETIARRSRAFEQFLGHLQA  
VPELRHAPDLQDFFVLPELRRASLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG  
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTPPPSLKELLIKEVLD

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**FIGURE 5789**

GTGGCCGCGTCGCCCCGATCCCCTGAGCTGCCCCGCATCCCACGTGACCGCGCGCCCCCAGCTCCACCGCTG  
AGCCCGCTCGCCATGGCCCTCTTCGGGGCCCTCTTCCTAGCGCTGCTGGCAGGCGCACATGCAGAGTCCCAGGC  
TGCAAGATCCGCGTCACCTCCAAGGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTCTGGAGCAAGAGCTG  
GAGACTATCACCATTCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTACA  
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTCAAATCACCAATGCCTCC  
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG  
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCGGGATCCCGCTGGACGGATGAAAGTGTCCAATGTCTCCTGC  
CAGGCCTCTGTCTCCAGAATGCACGCGGCCCTTCGGGGGAACCTCAAGAAGGTGTATGATTTTCTCTCCACGTTT  
ATCACCTCAGGGATGCGCTTCCTCCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCTCTGCTC  
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTGGCATTGACTATTCCCTCATGAAG  
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGAATTCGGGGGGCCCTTCTTCCCCCTGACTGAGAGGAAGTGG  
AGCCTCCCCAACCGGGCAGTGGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTC  
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGGACAAGGTGCCC  
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCTGCTGAGCCCAGCAGTGATTGACTCC  
CCATTGAAGCTGGAGCTGCGGGTCTTGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC  
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC  
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCAGCGAGCTGGACCTGCGCAGGTTCCGAATCTAT  
TCCAACCATCTGCACTGGAGTCGCTGGCTCTGATCCCATACAGGCCCTCTGAAGACCATGCTGCAGATTGGG  
GTGATGCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGCAGATCCCACTACCTGAGGGCATCAACTTTGTGCA  
GAGGTGGTGACGAACCATGCGGGATTCTCACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG  
ATTGAGAAGAACCGGCCTGCTGATGTGAGGGCGTCCACTGCCCCACACCGTCCACAGCAGCTGTTCAGCCCTC  
AATCCCCAAGCTGGCAGCTGTATTAGGACCCCAACCCCTCTCAGCCCCCTTTTTCCACATTATAGCCTGTA  
GTGCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATTCATAATCAATC  
TATCAATTACAGTCCGTCCACCACC

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**FIGURE 5790**

MALFGALFLALLAGAHAEFFPGCKIRVTSKALELVKQEGLRFLQELETITITIPDLRGKEGHFYNNISEVKVTELQL  
TSSELDQFQQELMLQITNASLGLRFRRQLLYWFFYDGGYINASAEGVSIRTGLELSRDPAGRMKVSNNVSCQASV  
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICPVLYHAGTVLLNSLLDTVPVRSSVDELVGIDYSLMKDPVA  
STSNLDMDFRGAFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFDAMESYFRAGALQLLLVGDKVPHDLD  
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA  
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLOAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT  
NHAGFLTIGADLHFAKGLREVIEKNRPADVRASTAPTPTAAV

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**FIGURE 5791**

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC  
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCAGACAGGCAGCT  
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCC  
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT  
GCGAACCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA  
CAACATCACCTATTGGATCCAAACTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCGCGC  
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA  
GTTTGGTGTGCGGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCTCTCC  
TGGCCCCGGCATTCAAGGAGACGCCCATTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCTGTTCC  
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCTTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG  
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG  
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCTGCCAGTTTCCATTTCATCTT  
CCAAGGCCAATCCTACTCCGCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA  
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCCGACCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG  
GGAGCTGTGCGTCTTCCCTTCACTTTCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG  
GCGCCTCTGGTGCCTACCACTCGAAGTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG  
TTTGTTCCTCGTGGCGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCCTCAGTGCCGGAGGCGCTCAT  
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCTTGCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG  
TCCTCGCCCTGAACCTGAGCCACGGCTCCAACCACCACCACACCGCAGCCACGGCTCCCCCGACGGTCTGCCC  
CACCGGACCCCCACTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC  
AGGTCCCCCACTGTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA  
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTGTTCAGGATGGGAAGTACTGGCGATTCTCTGA  
GGGCAGGGGGAGCCGGCCGAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCCGCAAGCTGGACTC  
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTGCGGCCAGGTGTGGGTGTACACAGGCGCGTC  
GGTGTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG  
TGGCAGGGGGAAGATGCTGCTGTTTACGCGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC  
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCTTTGGACACGCACGACGTCTTCCAGTACCGAGA  
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT  
GGGCTACGTGACCTATGACATCTGCACTGCCCCTGAGGATAGGGCTCCCGTCTCTGCTTTGCAGTGCCATGTAAA  
TCCCCACTGGGACCAACCTGGGGAAGGAGCCAGTTTGGCGGATACAACTGGTATTCTGTTCTGGAGGAAAGGG  
AGGAGTGGAGGTGGGCTGGGCCCTCTCTCTCACCTTTGTTTTTGTGGAGTGTCTTAATAAACTTGGATTCT  
CTAACCTTT